Panasonic

Video Cassette Recorder

NV-J22AM

Operating Instructions

使用説明書

VHS
PAL NTSC

Before attempting to connect, operate or adjust this product, please read these instructions completely.

VQT4063

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Information for Your Safety

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION

NOT FOR AUSTRALIA.

Remarks

1. This VTR is capable of receiving SECAM type broadcasting programmes (SECAM B/G) and recording/playing back its colour television signals.
2. When a cassette which has been recorded on this VTR is played back on a SECAM VTR, the picture may be reproduced in black and white. When it is played back on a PAL VTR without SECAM capability, the picture may be not reproduced in normal colour.
3. When cassettes recorded on a SECAM VTR or SECAM pre-recorded cassettes are played back on this VTR, the picture is reproduced in black and white.
4. This VTR is not designed for use in France, where a SECAM VTR should be used instead.

FOR YOUR SAFETY

■ **DO NOT REMOVE OUTER COVER.**

To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

Cautions

Please read these cautions before you operate this VTR.

Cassette Compartment Door

When first unpacking the unit, you may notice that the cassette compartment door is partially open. This condition is due to the operation of a safety device designed to protect the unit from vibration during shipment; it is not a malfunction. When the AC mains lead is connected to a mains outlet, the door will return to its original position.

Avoid Sudden Changes in Temperature

If the VTR is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the VTR. In this case, the Dew Indicator " ☐ " will flash on and off and the VTR will not operate.

Humidity and Dust

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

Do Not Obstruct the Ventilation Holes

The ventilation holes prevent abnormal increase in temperature. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VTR away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

Keep Magnets away

Never bring a magnet or magnetized object near the VTR because it will adversely affect the performance of the VTR.

No Fingers or Other Objects Inside

Touching internal parts of this VTR is dangerous, and may cause serious damage to the VTR. Do not attempt to disassemble the VTR. There are no user serviceable parts inside.

Keep Water away

Keep the VTR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, consult qualified service personnel.

Lightning

To avoid damage by lightning, disconnect the aerial plug from the VTR.

Cleaning the VTR

Wipe the VTR with a clean, dry cloth. Never use cleaning fluid, or other chemicals. And do not use compressed air to remove dust.

Stacking

Place the VTR in a horizontal position, and do not place anything heavy on it.

Video Head Clogging

The video heads place picture signals on the tape during recording and read picture signals from the tape during playback and they are, therefore, of critical importance for the picture quality. To ensure that they can always provide optimum picture quality, this VTR is equipped with an Auto Head Cleaning Function that removes tape particles and dust from the video heads. However, if the VTR is used over extremely long periods of time, these heads may still become dirty and clogged. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such a symptom case occurs have the recorder checked by qualified service personnel.

If Dew Condensation Forms in the VTR

Condensation may form in the VTR if:

- The VTR is in a room where the heater has just been turned on.
- The VTR is in a room with steam or high humidity.
- The VTR is brought from cold surroundings into a well-heated room.
- The VTR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

When dew forms in the VTR: (Refer to page 5.)

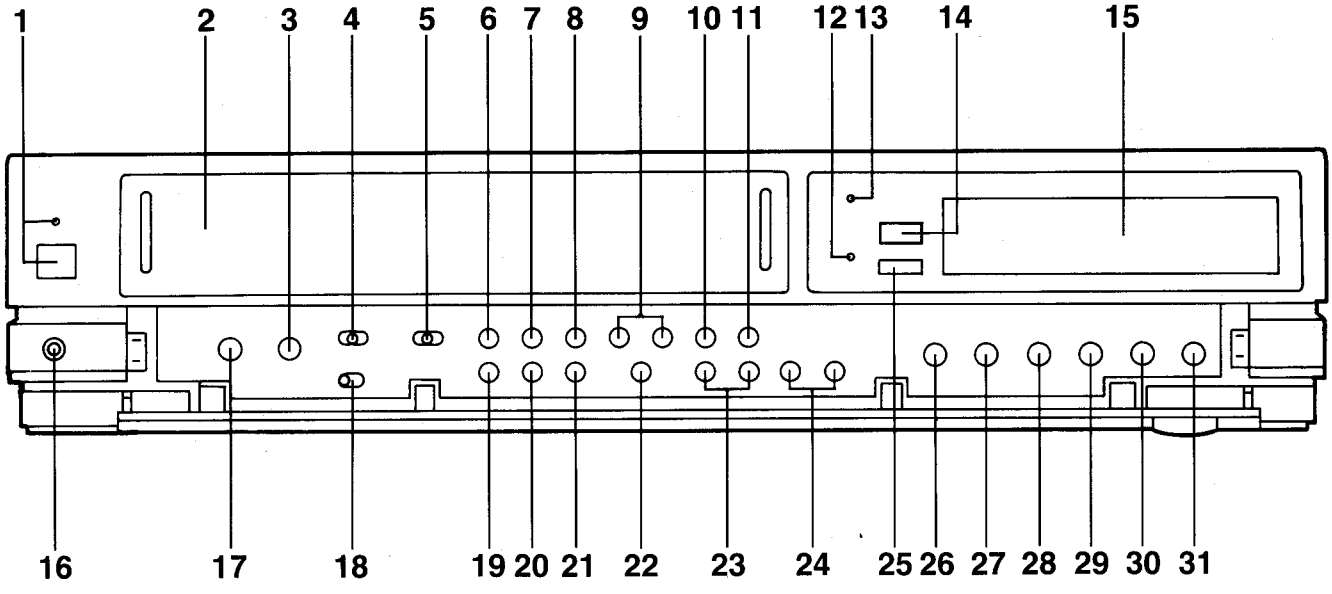
The Dew Indicator " ☐ " on the Multi-Function Display will flash on and off and all the function buttons are made non-operational to protect the tape and the video heads. When the Dew Indicator flashes, wait until this indicator disappears.

- If dew condensation forms inside the VTR while the VTR On/Off Switch is off, it will turn on automatically and the Dew Indicator will flash on and off. As soon as the dew condensation has been dissolved, the VTR will turn itself off again.

ENGLISH

Controls and Components

FRONT



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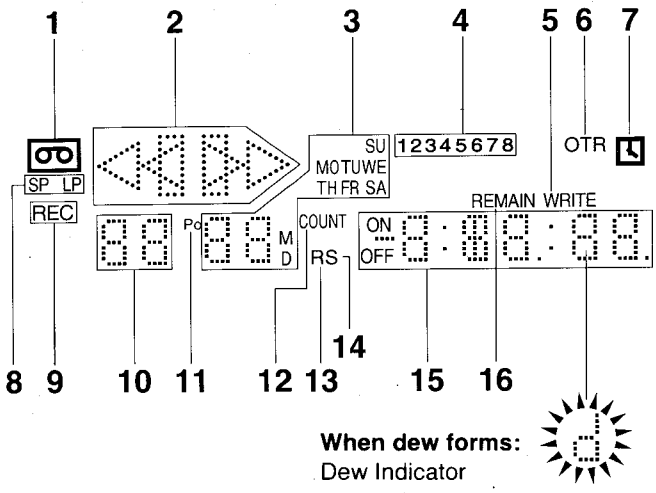
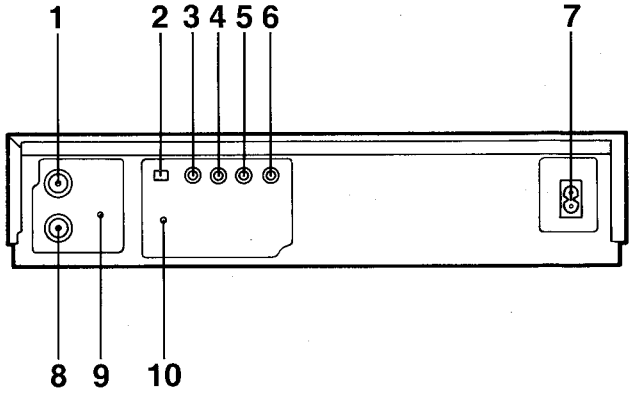
Controls and Components (Cont'd)

Multi-Function Display



REAR



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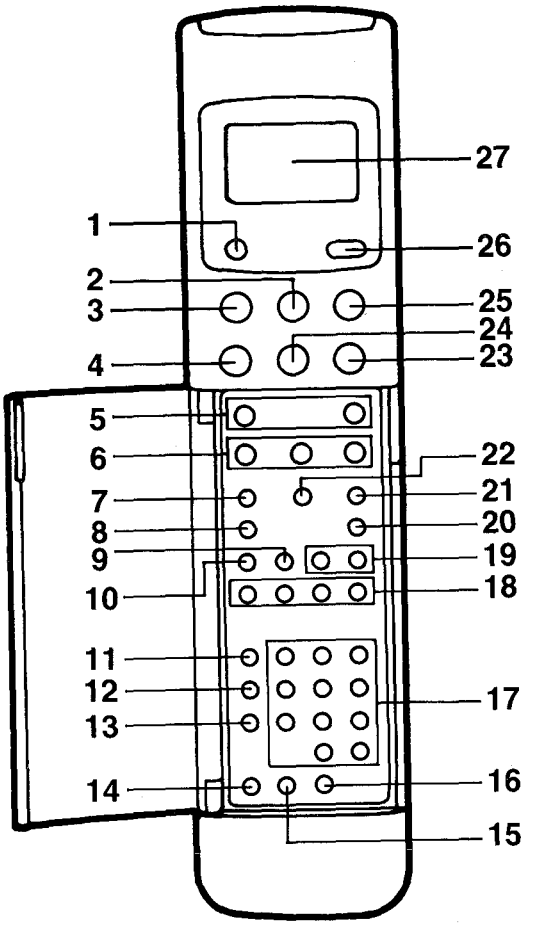
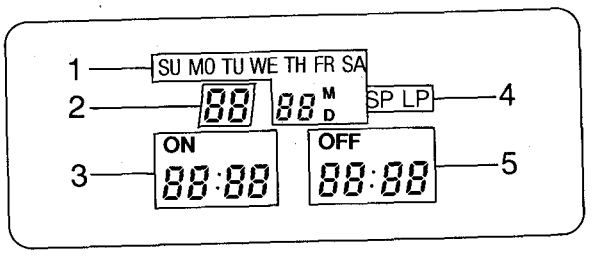
ENGLISH

Infra-Red Remote Controller



1 VTR On/Off Button
2 Stop Button (■)
3 Pause/Still Button (❚❚)
4 Rewind ◄◄/Review ⏪ Button
5 Record Buttons
6 Slow Buttons
7 Clock/Counter Selector
8 Monitor Button
9 Time Search Button
10 Index Button
11 Programme Button
12 Next Button
13 Tape Speed Selector
14 Timer Record Button
15 Clear Button
16 PAL/MESECAM Selector
17 Programme Position (Channel) Selector Buttons
18 Auto Play Buttons
19 Tracking/V-Lock "+" and "–" Buttons
20 Input Signal Selector
21 Reset Button
22 Tape Remain Button
23 Fast Forward ►►/Cue ⏩ Button
24 Play Button (►)
25 Still Advance Button (⏸)
26 Transmit Button
27 Display



1 Date Display
2 Channel Display
3 Start Time Display
4 Tape Speed Indicator
5 End Time Display

Infra-Red Remote Controller (Cont'd)

Power Source for the Remote Controller

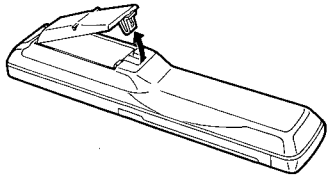
■ The Remote Controller is powered by 2 IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

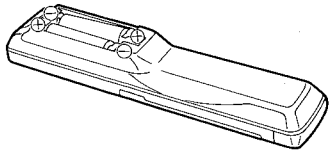
- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

Load the batteries as follows:

1 Remove the battery compartment lid.



2 Place the batteries in the battery compartment as indicated inside the battery compartment.



3 Replace the lid.

Note:

- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver in the VTR is about 30° for each side from the centre.
- The unit should be used within a range of about 7 meters from the front of the VTR.

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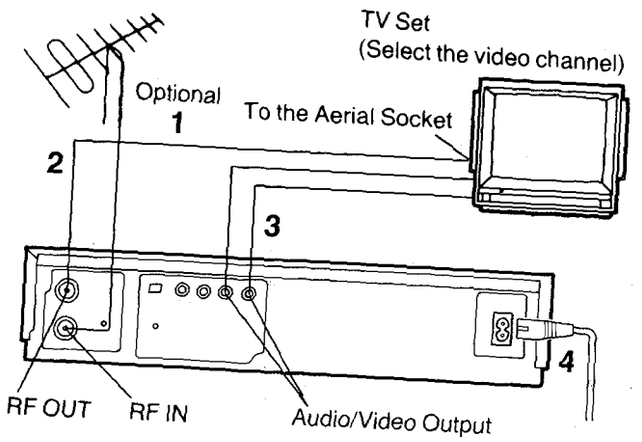
Installation

Connection to a TV Set



1 Connect the external aerial to the RF Input Socket on the VTR.

2 Connect the aerial terminal on your TV set to the RF Output Socket on the VTR with the supplied DIN-DIN Coaxial Cable.

- *In places with high temperature and high humidity, people with sensitive skin may feel some electricity. In this case, use the Separate Transformer Adaptor.*

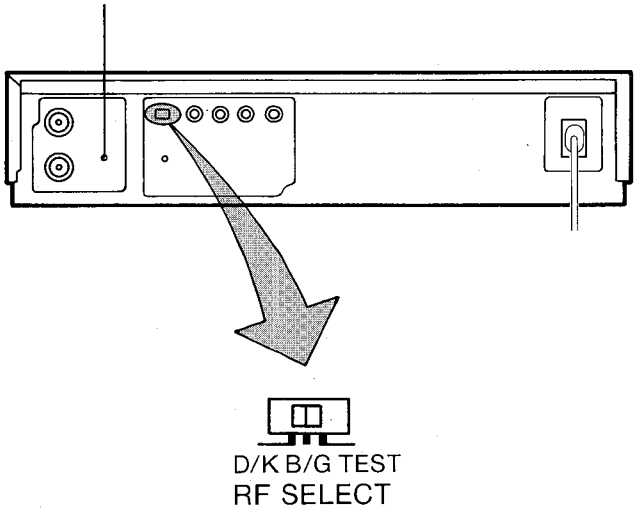
3 If the TV set is equipped with separate video and audio input sockets, it is recommended to connect the VTR to the TV set with separate video and audio cables (not supplied).

4 Connect the AC Mains Lead to the AC Mains Socket of the VTR to the mains outlet.

Tuning the TV Set to the Video Playback Channel

The adjustments described on this page are not necessary, if the VTR is connected to the TV set via the Video/Audio output sockets.

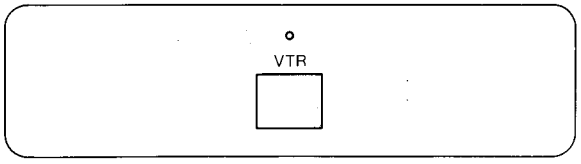
Video Playback Channel Adjustor
To change the video playback channel.



1 Turn the TV set on and select the AV programme position or another programme position that is not occupied by any TV station.

2 Press the VTR On/Off Switch to turn the VTR On.

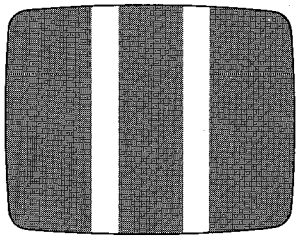
(FRONT SIDE)



- The corresponding indicator lights up.

3 Set the RF Selector/Test Signal Switch to "TEST".

4 Tune the selected programme position of the TV set to UHF approx. channel C25 (D.K. K1) or E38 (B.G). Confirm on your TV set that the received test pattern is as shown.

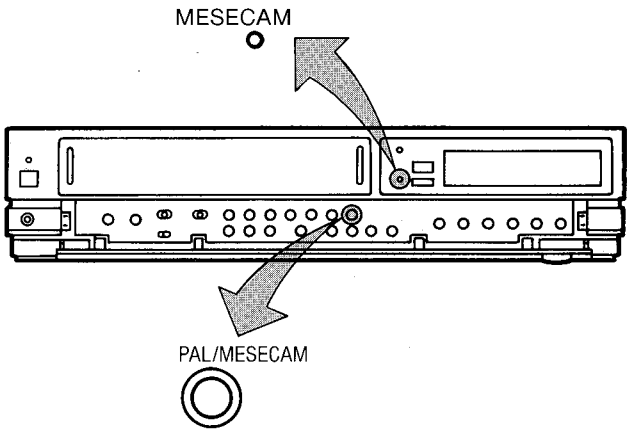


- If UHF channel E38 (C25) is already occupied by a TV station in your area, the video playback channel can be changed between channel 32 to 40 (24 to 27) on the back of the VTR by using a small screwdriver.
- When using D.K. K1 system TV set, only noise (a "Buu" sound) can be heard. However, this is not due to any malfunction.

5 Set the RF Selector/Test Signal Switch to the position that matches the TV system used by your TV set. Your TV is now ready to receive the RF output signal from the VTR.

PAL/MESECAM Selector

This selector should be set according to the colour TV system used during recording and playback.
When the MESECAM Indicator is lit, the MESECAM system is selected.



During AV Signal Input
- PAL: When receiving PAL signals
- MESECAM: When receiving SECAM signals

During Playback
- PAL: When playing back a tape recorded in the PAL system
- MESECAM: When playing back a tape recorded in the MESECAM system

When recording broadcast signals from the built-in tuner in this VTR, the PAL/MESECAM Selector cannot be used, because the system is locked to the preset system.

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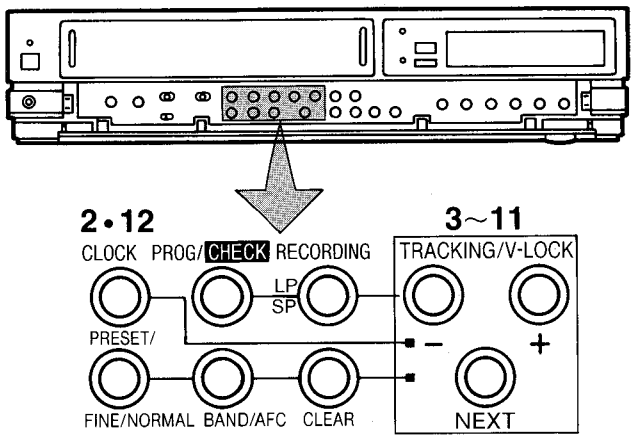
Setting the Clock to the Present Time

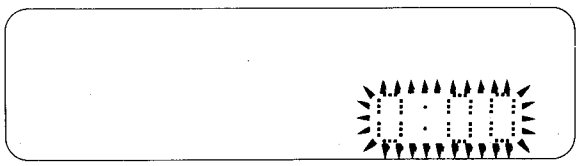
The built-in digital clock employs the 24-hour system.



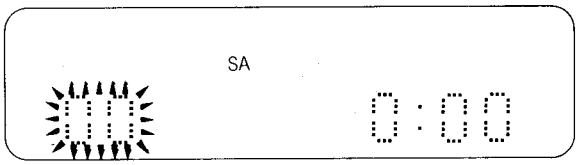
For Example: Set the clock for Sunday, October 10, 1999, 9:10.

- Connect the VTR to the mains outlet.
- Press the VTR On/Off Switch to turn the VTR On.

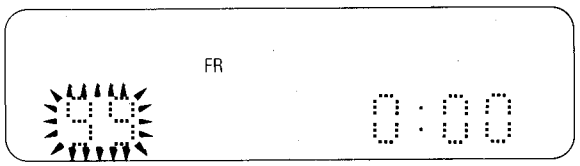
1 When connecting this VTR to the mains or after a long power failure, the indications flash.



2 Press the Clock Button to start the date and time setting.

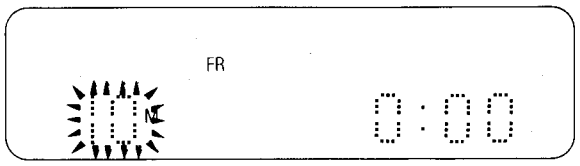


3 Press the "+" or "–" Button to set the year.



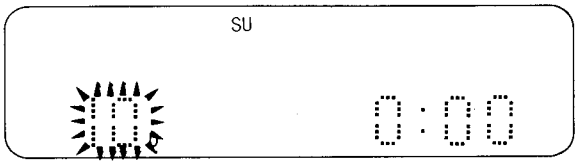
4 Press the Next Button.

5 Press the "+" or "–" Button to set the month.



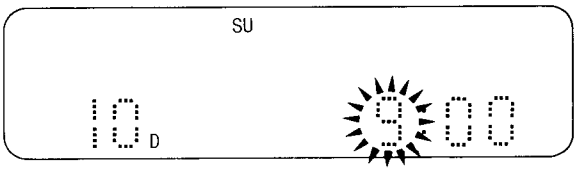
6 Press the Next Button.

7 Press the "+" or "–" Button to set the date.



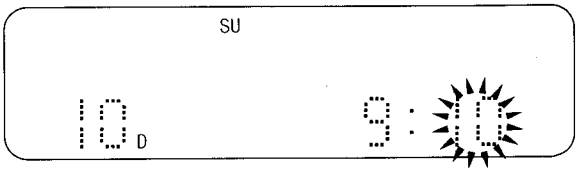
8 Press the Next Button.

9 Press the "+" or "–" Button to set the hour.

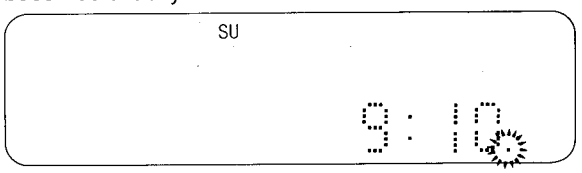


10 Press the Next Button.

11 Press the "+" or "–" Button to set the minute.



12 Press the Clock Button when the present time becomes exactly 9:10'00".



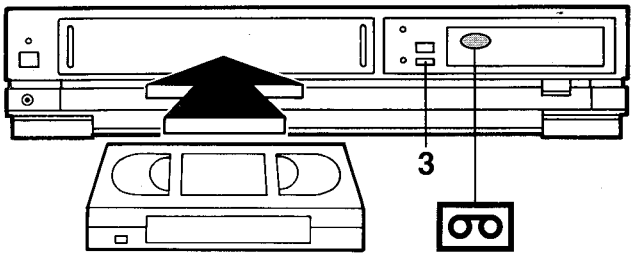
At every push of the Next Button, the flashing indication changes in the following order.

YEAR→MONTH→DATE→HOUR→MINUTE

- In case of a power failure, the timer back-up system maintains the clock operation and timer content for at least 60 minutes. However, depending on the charging time and the memory content, the back-up time may be considerably longer. However, it takes more than 60 minutes for the back-up circuit to become operational, after the VTR is connected to the mains.
- The Timer Record Function should be set to "Off", otherwise the VTR cannot be operated normally. In this case, the Timer Record Indicator "⏲" will flash to warn you.
- During date setting, the corresponding day is simultaneously set.
- The clock/timer of the VTR is programmed with the calendar up to the end of the year 2087.
  The indications 88-99 are for the years 1988–1999.
  The indications 00-87 are for the years 2000–2087.

The Video Cassette

Inserting a Video Cassette (Auto Operation)



1 Insert the video cassette as shown. The VTR will be turned on automatically and the cassette will be automatically drawn into the VTR.

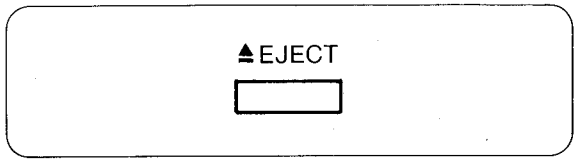
2 When a video cassette is inserted, the "📼" mark will appear.

Notes:

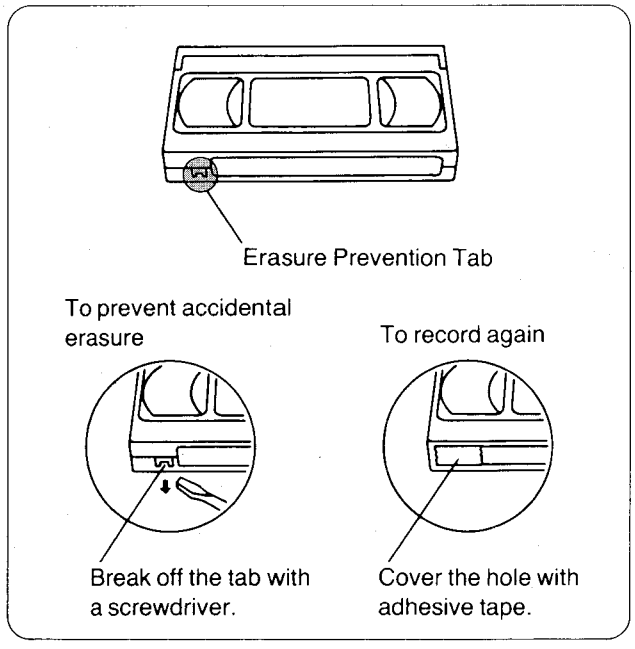
- When a video cassette with broken out erasure prevention tab (for example a pre-recorded tape) is inserted, playback will start immediately.
- Use VHS video cassette tapes only.

Removing a Video Cassette

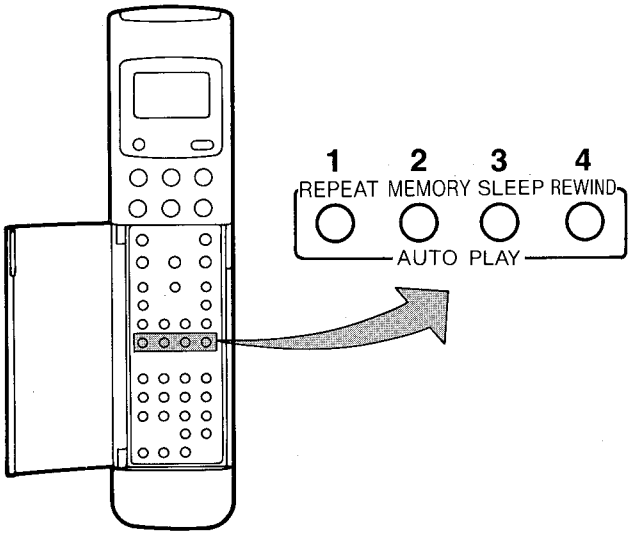
3 Press the Eject Button (⏏).



Simply press the Eject Button; the VTR turns itself on, ejects the cassette and turns itself off again.


Erasure Prevention Tab
To prevent accidental erasure
To record again
Break off the tab with a screwdriver.
Cover the hole with adhesive tape.

Auto Operation

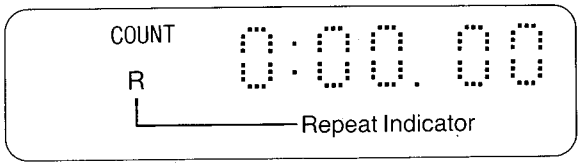


Convenient Automatic Playback Functions

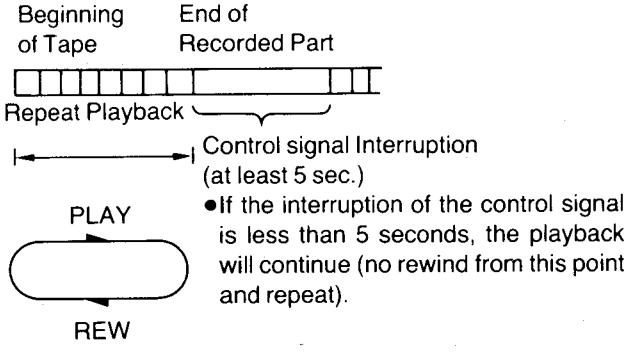
The following convenient automatic playback operations can be activated simply by pressing a single button on the Remote Controller.

1 Repeat Playback

When the Repeat Button is pressed, the "R" Indication will light up in the Multi-Function Display on the VTR and playback will start. When the tape reaches the end of its recorded portion, it will automatically be rewound to the beginning and playback will then start again. This process will be performed repeatedly.



- The playback will continue until the VTR detects the end of the video recording (no control signal for more than 5 seconds). At this point, the tape will be rewound to the beginning and the playback will be repeated.



- If the interruption of the control signal is less than 5 seconds, the playback will continue (no rewind from this point and repeat).

To stop the Repeat Playback, press the Stop Button.

Note:
If a short tape portion is played back many times, the tape may become damaged at that part.

2 Memory Playback

When the Memory Button is pressed while the VTR is in the Stop mode, the tape is then fast-forwarded or rewound and it will be stopped at the tape counter position "0:00.00", and playback will then start from that position.

3 Sleep Playback

When the Sleep Button is pressed, playback will start. As soon as the tape reaches the end of its recorded portion, it will be automatically rewound to the beginning, and the VTR will then turn itself off.

4 Rewind Playback

When the Rewind Button is pressed, the tape will be rewound. As soon as the beginning of the tape is reached, playback will start automatically.

Auto Operation

Auto VTR On

When a cassette is inserted, the VTR turns itself on automatically.

Auto Play

When inserting a video cassette which has the erasure prevention tab removed, playback will start automatically.

Auto Rewind

When the tape reaches its end during recording (except OTR and timer recording) or playback, it will automatically be rewound to the beginning.

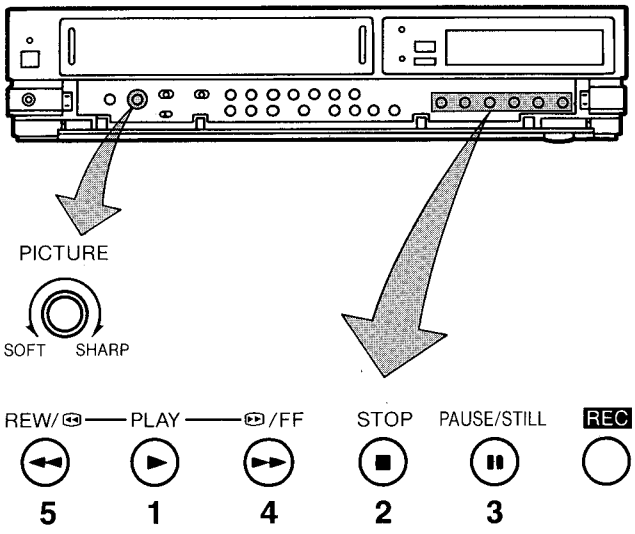
VTR-Off Eject

When the VTR is off, the inserted cassette can be ejected simply by pressing the Eject Button, and VTR will automatically turn itself off again.

Auto Head Cleaning Function

This VTR features a special function that automatically removes tape particles and dust from the video heads to ensure continuously superior picture quality. While the Head Cleaning Function is working, some mechanical noise can be heard from the VTR. However, this is no malfunction.

Playback

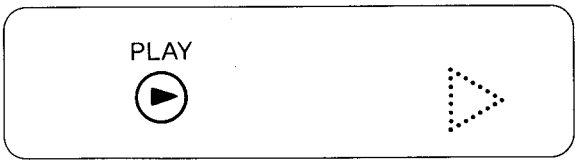


Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a recorded video cassette.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Turn the TV set on and select the video playback channel.
- Set the Noise Filter/Edit Selector to "Off".

1 Normal Playback

Press the Play Button (▶).



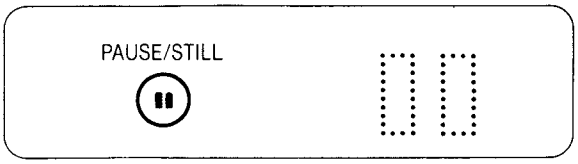
- Control the picture as you like with the Picture Sharpness Control (sharp or soft contours).

2 To Finish Playback

Press the Stop Button (■) to stop the playback.

3 Super Still Playback

When the VTR is in the playback mode, press the Pause/Still Button (❚❚) to view a still-picture. To continue the normal playback, press the Play Button (▶) or this button again.

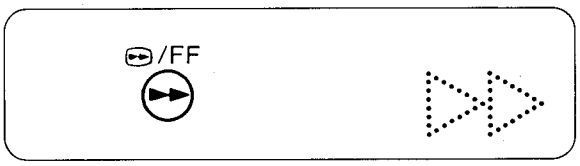


- If you leave the VTR in the still playback mode for more than 5 minutes, the VTR will automatically switch over to the Stop mode to protect the tape and the video heads.

4 Cue Playback

For short Cue playback (during normal playback), keep the Fast Forward ▶▶/Cue ▶▶ Button pressed for as long you want the tape to be played back at high speed in forward direction.

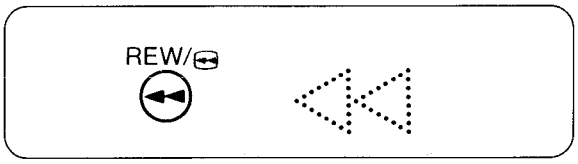
For longer Cue playback (during normal playback), quickly press the Fast Forward ▶▶/Cue ▶▶ Button to start the Cue playback. To change back to normal playback, press the Play Button (▶).



5 Review Playback

For short Review playback (during normal playback), keep the Rewind ◀◀/Review ◀◀ Button pressed for as long you want the tape to be played back at high speed in reverse direction.

For longer Review playback (during normal playback), quickly press the Rewind ◀◀/Review ◀◀ Button to start the Review playback. To change back to normal playback, press the Play Button (▶).



Note:
When Cue or Review playback continues for more than 10 minutes, the VTR will automatically switch back to the normal playback mode.

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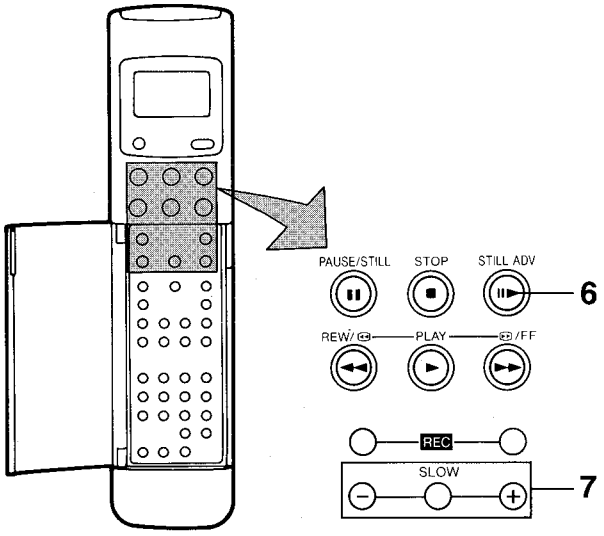
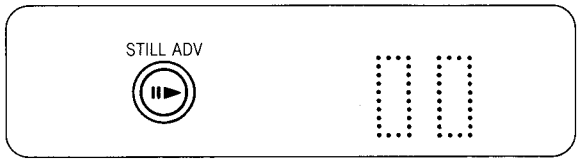
Playback (Cont'd)

Using the Remote Controller



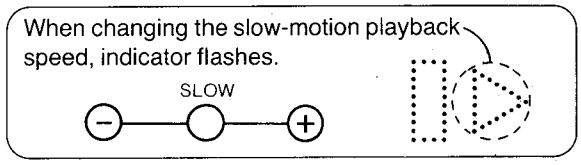
6 Super Still Advance Playback

Press the Still Advance Button (II▶) while the VTR is in the still playback mode. Each time you press this button, the still-picture will advance one single field.



7 Super Fine Slow Playback

During normal playback, the Slow-motion playback can be activated by pressing the Slow Button. The slow-motion playback speed can then be varied by using the Slow "+" or "−" Button.



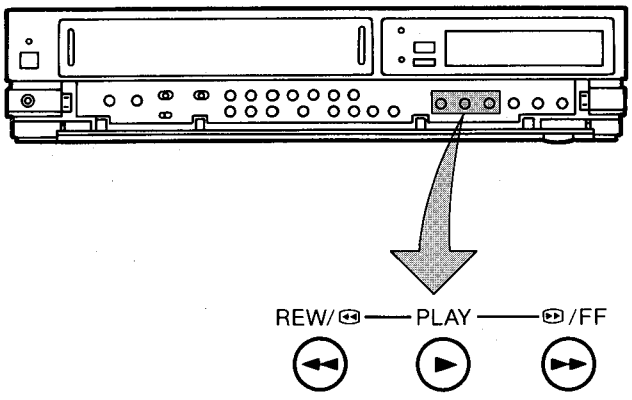
- Press the Play Button (▶) to continue the normal playback.
- If the Slow playback operation continues for more than 5 minutes, the VTR automatically switches over to the stop mode.
- While playing back a tape in the Super Still or Super Fine Slow playback mode on a TV set equipped with an automatic vertical hold control, the picture may shake vertically. In this case, set the TV set's vertical hold (Auto/Manual) selector to the "Manual" position, and adjust with the vertical hold control.

Slow Tracking Control

- When noise bars appear during Super Still, Super Still Advance or Super Fine Slow playback, switch over to slow playback and adjust with the Tracking "+" or "−" Button to reduce the noise bars.
- It may not be possible to eliminate the noise bars completely.

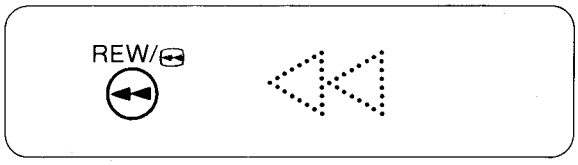
- The sound will be played back only during normal playback.
- When the picture rolls vertically in the Cue or Review mode, adjust the vertical hold control on the TV set.
- Immediately after starting Cue or Review playback, the picture may be distorted. Also, when these modes are cancelled, some momentary picture distortion may occur. However, this is not due to any malfunction.
- Noise which takes the form of horizontal bars appears on the TV in the Cue and Review playback modes. This is not an indication of a malfunction.
- The top of the picture may become distorted in the Cue or Review mode. This is not an indication of a malfunction.
- In "LP" mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.
  3. When playing back a tape on which SECAM (OST) signals have been recorded, the colour may be unstable, or a Black-and-White picture may appear.

Playback (Cont'd)

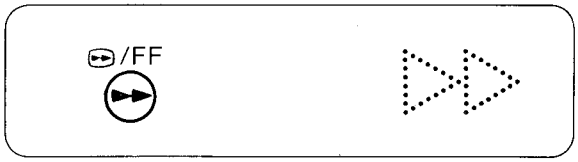


Rewind and Fast Forward

Press the Rewind ◀◀/Review Button to rewind the tape.

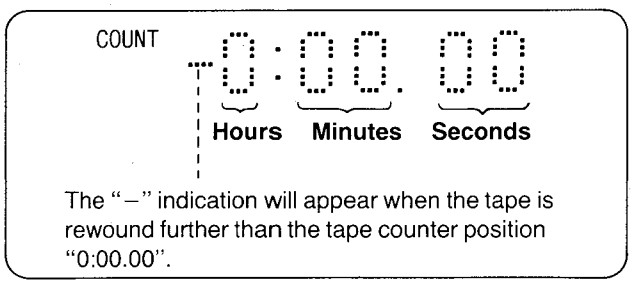


Press the Fast Forward ▶▶/Cue Button to wind the tape forward rapidly.



Lap Time Counter

It shows the elapsed recording or playback time.



The "–" indication will appear when the tape is rewound further than the tape counter position "0:00.00".

- If the figures on the Tape Counter do not change during Fast Forward, Rewind or any of the Playback functions, this means that nothing is recorded on that tape section.
- The Tape Counter is automatically reset to "0:00.00" when the video cassette is inserted.
- During playback of NTSC recordings, the Tape Counter does not function correctly.

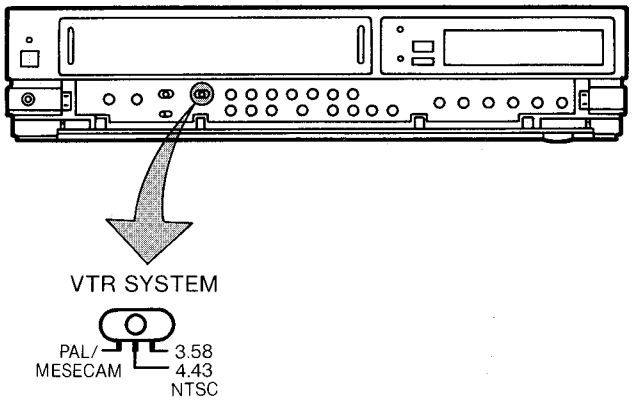
NTSC Playback

When playing back tapes recorded in the NTSC system with this VTR via an NTSC system TV set, set the VTR System Selector to "4.43" or "3.58".

When using an NTSC 4.43 system TV set:
Set the VTR System Selector to "4.43".

When using an NTSC 3.58 system TV set:
Set the VTR System Selector to "3.58".

- When playing back tapes recorded in the PAL system with this VTR via a PAL system TV set, set the VTR System Selector to "PAL/MESECAM".
- Tapes recorded in the PAL system cannot be played back with this VTR via an NTSC system TV set.



Playing back tapes recorded in the NTSC system via a PAL system TV set

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.
Set the VTR System Selector to the "PAL/MESECAM" position.

- Depending on the TV set used, the picture may shrink vertically and black bars may appear both at the top and bottom of the screen.
  This is not an indication of a malfunction.
- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control. However, if the TV set is not equipped with a V-HOLD control, this condition cannot be corrected.
- When playing back a tape recorded in the NTSC system SLP mode, the "LP" Indication in the Multi-Function Display will light up.
- The special playback functions (except normal playback) cannot be used for NTSC playback. This is not an indication of a malfunction.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

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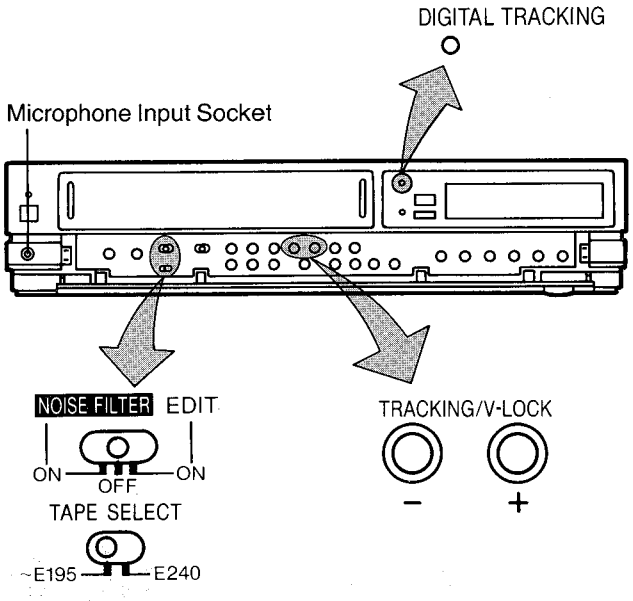
Playback (Cont'd)



Digital Tracking

When playback is started after inserting a cassette, and the VTR is turned on, the Digital Tracking function will be activated automatically, the Digital Tracking Indicator will flash for several seconds, and the tracking will be adjusted automatically (after the adjustment, the Digital Tracking Indicator will remain lit).

- When the Digital Tracking Indicator is lit and the tape speed (SP/LP) is changed, the Digital Tracking function will be activated. However, when operating any function other than playback, insert editing and audio dubbing, this function will not work.
- During playback, the Digital Tracking function will be activated whenever the playback changes over from an unrecorded part to a recorded part, provided the recorded part is longer than 4 seconds.

> • When the picture is distorted by noise bars, press the Tracking "+" or "−" Button to select manual tracking and adjust with these two buttons. The Digital Tracking Indicator goes out.
> To change back to Digital Tracking, press the Tracking "+" and "−" Buttons simultaneously.

Vertical Lock Adjustment

If vertical jitter occurs, adjust with the V-Lock "+" or "−" Button during Still playback.

- When the AC Mains Lead is unplugged or a power failure occurs, perform the vertical lock adjustment again.

Noise Filter/Edit Selector

EDIT ON: For editing operations such as dubbing.
OFF: For ordinary use of the VTR.
NOISE FILTER ON: For playback of tapes with inferior picture quality caused, for example, by repeated dubbing.

> • When the Noise Filter/Edit Selector is set to "EDIT ON", the picture sharpness cannot be adjusted with the Picture Sharpness Control.

Tape Select Switch

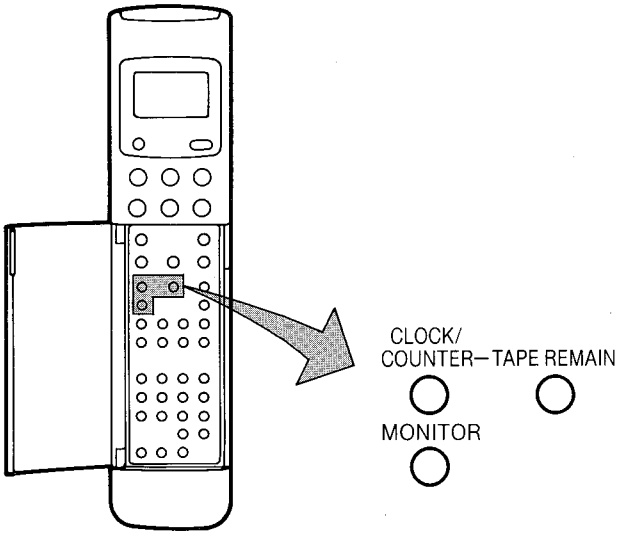
To obtain a correct Remaining Tape Time indication when using an NV-E240 video cassette tape, this switch must be set to the "E240" position.
When using NV-E30, 60, 90, 120, 180 or 195 video cassette tapes, set this switch to the "~E195" position.
If cassettes with other tape lengths than the above are used, the Remaining Tape Time indication will not be precise.

Microphone Mixing Playback

By connecting a microphone to the Microphone Input Socket on this VTR, it can also be used as a Karaoke set. Adjust the sound volume of the Microphone to the proper volume with the Microphone Mixing Level Control.

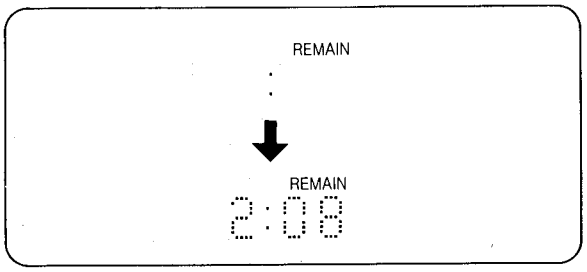
- If the volume is too high, the sound from the speaker may become distorted.
- If acoustic feedback (howling) occurs, turn the microphone volume down, put the microphone farther away from the speakers or turn the volume of the TV set down. (If the sound is produced through a stereo amplifier, turn the volume of the stereo amplifier down.)

Playback (Cont'd)



Indication of the Remaining Tape Time

When the Tape Remain Button on the Remote Controller is pressed during playback or recording mode, the approximate remaining tape time will be displayed in hours and minutes.



- The Remaining Tape Time Indication will remain displayed even after the tape is ejected. However, when next inserting a cassette, this indication will be cancelled.
- When using a VHS-C videocassette in this VTR, the remaining tape time indication may not be correct or this indication may not appear at all.
- To return to the Tape Counter indication, press the Tape Remain Button again.

Clock/Counter Selector

By pressing this button when the VTR On/Off Switch is set to "On", it is possible to change over the display mode of the Clock/Counter Display in the Multi-Function Display from "Clock" to "Counter" Display and vice versa.

- Even if the selector button is set for "Counter", the display will automatically changes over to "Clock" Display in all the following cases; When you set the VTR On/Off Switch to "Off", adjust the clock to present time, programme a timer recording, check a timer recording programme or perform an OTR.
- When the Clock/Counter Display shows the time, the counter cannot be reset.

Monitoring Function

When the Monitor Button is kept pressed during Playback or Still playback, the broadcast picture of the selected programme position (channel) or input signal through Audio/Video input socket will be displayed. When this button is released, the picture will change back to the playback picture of the tape.

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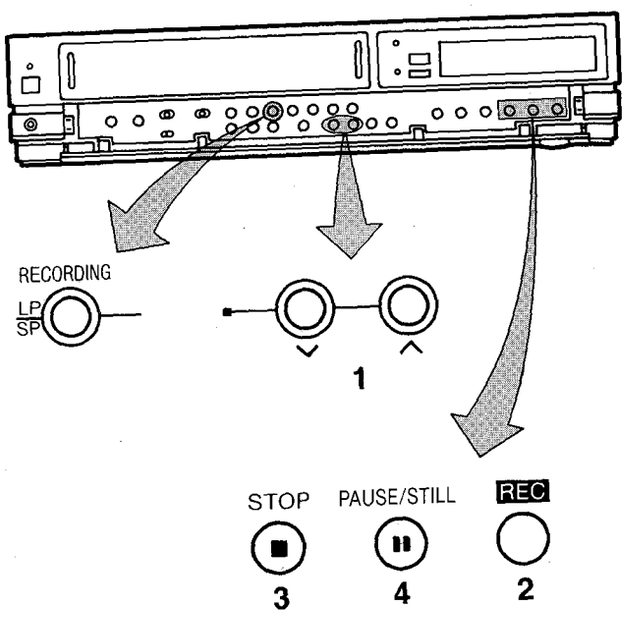
Recording from a TV Broadcast Signal



Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Set the Tape Speed Selector to "SP" or "LP".
- Confirm that no microphone is connected to the VTR.

Tape Speed Selector (SP/LP)

For recording, either of two tape speeds can be selected. During playback, the VTR will automatically select the correct speed.

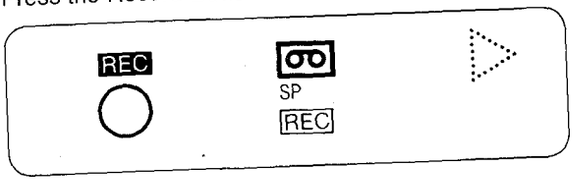
- SP Mode: For better picture quality.
- LP Mode: For longer recording time.

> It is not recommended to change from the SP to the LP mode or vice versa in the middle of recording. Even if the switching is done while the VTR is in the pause mode, picture distortion will occur at the switching point during playback.

Note:
The picture quality in the LP mode is not as good as that in the SP mode.

1 Select on the VTR, the programme position (channel) to be recorded. In order to confirm proper reception, turn on the TV set and select the video playback channel.

2 Press the Record Button.



- When a video cassette with broken out tab is inserted, the "⊙⊙" indication will flash.
- During recording, the programme position (channel) on the VTR cannot be changed.
- To start a recording with the Remote Controller, press the two Record Buttons on the Remote Controller simultaneously.
- When a recording (including OTR and Timer Recording) is started, the tape is played back for a short moment before the actual recording starts, in order to achieve smooth continuation from the previous to the new recording. Therefore, the new recording starts about 1.5 seconds late.

To Finish the Recording

3 Press the Stop Button (■).

If You Wish to Avoid Recording Unwanted Material

4 Press the Pause/Still Button (❚❚) to stop the tape temporarily.

- Press the Pause/Still Button (❚❚) again to continue the recording.
- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will automatically switch over to the stop mode to protect the tape and the video heads.

Recording One TV Programme While Watching Another

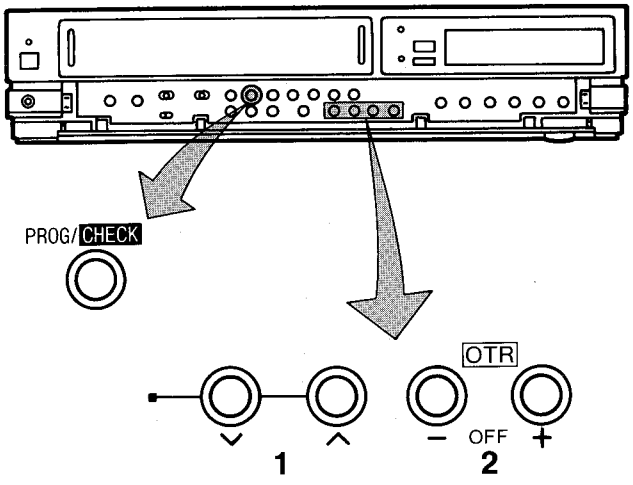
1 Record (following steps 1 and 2).

2 Select the desired programme position (channel) on your TV set.

Note:
If a microphone is connected to the VTR, the sound from the microphone will be recorded.

Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start by precisely setting ending time to the desired minute, and the VTR will automatically turn itself off when the recording ends.



Preparation

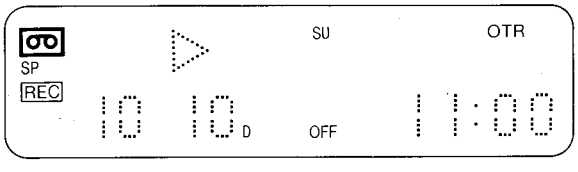
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Make sure that the clock shows the present time correctly.
- Set the Tape Speed Selector to "SP" or "LP".
- Confirm that no microphone is connected to the VTR.

OTR Function with Immediate Start

For example; OTR recording of a TV programme broadcast to 11:00.

1 Select the programme position (channel) to be recorded.

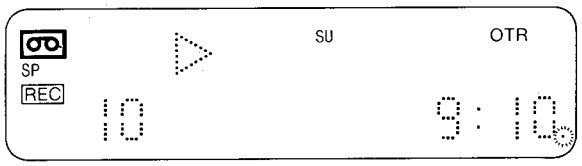
2 Press the OTR Off "+"or "−" Button to set the OTR ending time to 11:00.



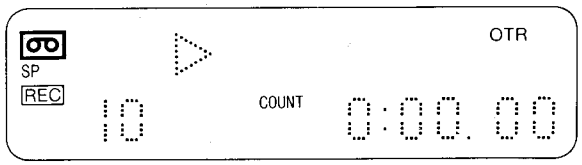
- The "OTR" indicator will be displayed.

- When a video cassette with broken out tab is inserted, the "⊙⊙" indication will flash.
- When quickly and repeatedly pressing the OTR Off "+" or "−" Button, the corresponding time indication changes in 1-minute steps. When it is kept pressed, the indication changes in 10-minute steps.
- The VTR will automatically switch off, when the OTR is completed. To turn the VTR on again, press the VTR On/Off Switch.

When the Programme/Check Button is pressed once, the present time will be displayed.



When the Clock/Counter Selector Button (Remote Controller) is pressed during OTR recording, the display will change over to the counter mode.



- When the tape reaches its end during an OTR the VTR will turn itself off.
- Make sure that the OTR Function (One-Touch Timer Recording) does not overlap a programmed timer recording. An OTR always takes precedence over a timer recording.
- It is possible to change the OTR ending time even during the recording.
- To interrupt an OTR, press the VTR On/Off Switch to turn the VTR off.

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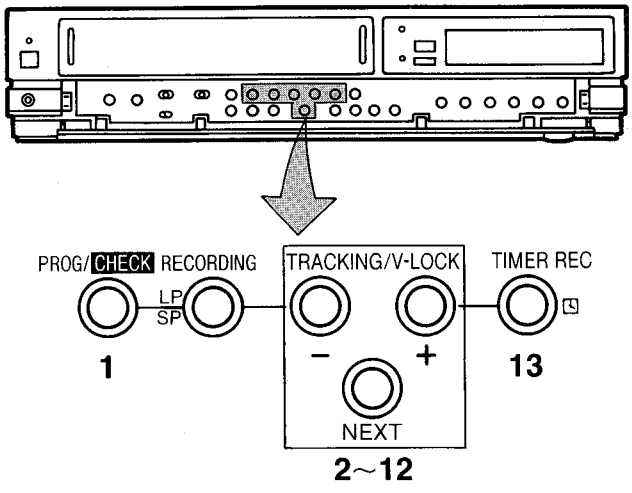
Timer Recording

The programming of timer recordings is possible both on the VTR itself and via the Remote Control Unit.
Programming of as many as 8 timer recording is possible up to one month in advance.
With the Digital Scanner (optional), easy programming of timer recordings is possible with bar codes.

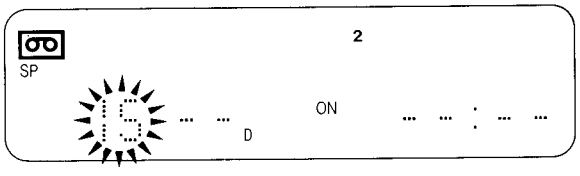


Preparation

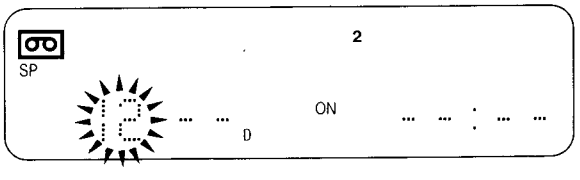
- Make sure that the clock shows the present time correctly.
- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Confirm that no microphone is connected to the VTR.

For Example:
Programming a timer recording for a TV programme that will be broadcast on Wednesday, October 27, from 10:30 to 11:45, on programme position (channel) 12, on timer programme number 2. (Present date=October 10, 1999)

1 Press the Programme/Check Button to select the next unoccupied timer programme number.
- Press the Tape Speed Selector Button until the Indicator of the desired tape speed ("SP" or "LP") is lit in the Multi-Function Display.

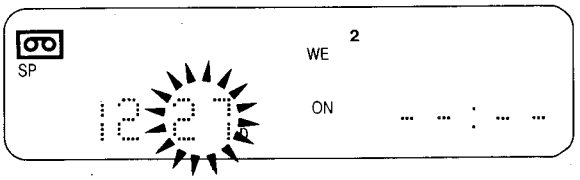


2 Press the "+" or "–" Button to select the programme position (channel) on which the TV programme will be broadcast.



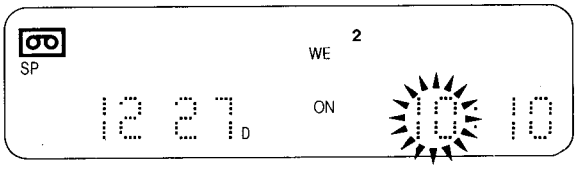
3 Press the Next Button.

4 Press the "+" or "–" Button to set the date.



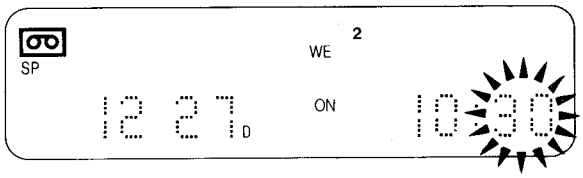
5 Press the Next Button.

6 Press the "+" or "–" Button to select the hour of the starting time of the TV programme.



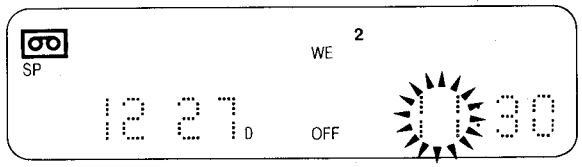
7 Press the Next Button.

8 Press the "+" or "–" Button to select the minute of the starting time of the TV programme.



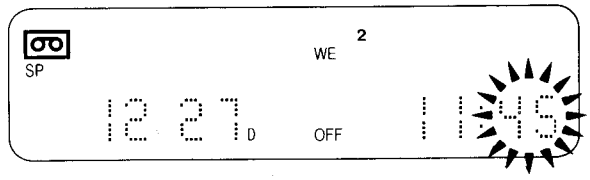
9 Press the Next Button.

10 Press the "+" or "–" Button to select the hour of the end time of the TV programme.

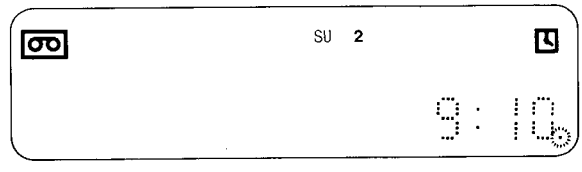


11 Press the Next Button.

12 Press the "+" or "–" Button to select the minute of the end time of the TV programme.



13 Press the Timer Record Button.



- The tape speed (SP/LP) can be selected in any of the steps 1 to 12.

Timer Recording (Cont'd)

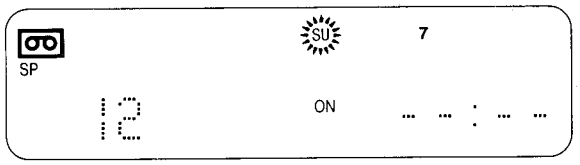
For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 10:30 to 11:45 on timer programme number 7.

Programming for everyweek recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 3 on page 22.

4 Press the "–" Button repeatedly until the "SU" Indicator (=Sunday) is lit.



Perform the operation steps 5 to 13.

For Everyday Recording

For Everyday Recording, you have the choice between 3 different modes: Monday through Friday *(1)*, Monday through Saturday *(2)*, and Sunday through Saturday *(3)*.

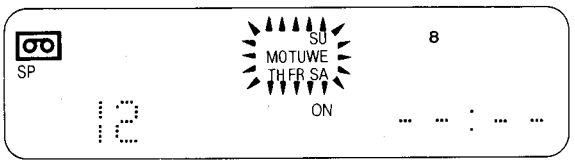
1	*2*	*3*
MOTUWE TH FR	MOTUWE TH FR SA	SU MOTUWE TH FR SA

For example:
Programme time for timer recording every day from 10:30 to 11:45 on timer programme number 8.

Programming for everyday recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 3 on page 22.

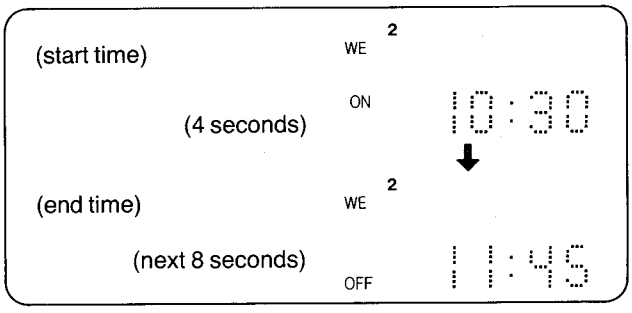
4 Press the "–" Button until the desired type of Everyday Recording (*1*, *2*, *3*) is displayed.



Perform the operation steps 5 to 13.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Record Function is set to "On".
Select the programme number to be checked, by repeatedly pressing the Programme/Check Button.
The preset channel and start and ending times of the timer recording will be indicated for about 12 seconds.



To Cancel a Timer Recording

Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

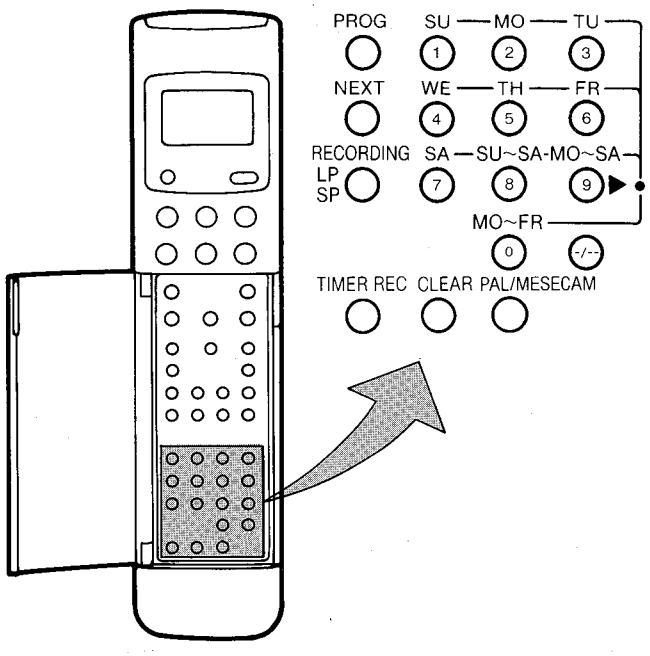
1 Press the Programme/Check Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the "+" and "–" Buttons simultaneously for more than 3 seconds.

- During recording, the programme position (channel) on the VTR cannot be changed.
- When you want to watch TV after setting a timer recording, select the desired channel on the TV set.
- To cancel a timer recording during recording, set the Timer Record Function to "Off".
- It is impossible to confirm programmes of timer recordings while an OTR is being performed.
- To turn the VTR on and use it for playback or recording before the timer recording is performed, set the Timer Record Function to "Off".
- When the Timer Record Function is set to "On" with no video cassette or a video cassette with broken tab inserted, the "📼" and "⏲" indications will flash. The "⏲" indication will also flash, when programming is not completely finished.
- If a timer recording is not performed to the end (not enough tape or cancelled by the user), the programmed timer recording data will be cancelled from the memory at 4 a.m. two days later. However, if the Timer Record Function is activated or an OTR recording is being performed at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

Timer Recording (Cont'd)

TIMER RECORDING BY USING THE REMOTE CONTROLLER



How to select the programme position (channel)
To select a figure between 1 and 9, press the numeric button corresponding to the number.
To select a 2-digit figure, first press the "-/--" button and then press the two corresponding numeric buttons one after the other within 5 seconds.

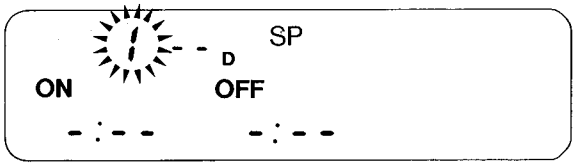
How to set the Date and the Starting & Ending Times for Timer Recording
To select a figure between 0 and 9, first press the numeric button "0" and then press the numeric button corresponding to the number.
To select a 2-digit figure, press the two corresponding numeric buttons one after the other.

2 → (0) → (2)
15 → (1) → (5)
30 → (3) → (0)

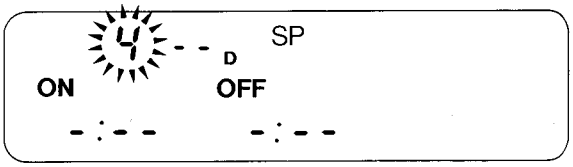
- The second button must be pressed within 5 seconds after the first button.
- Before pressing the Next Button, confirm that the figure that you have input is indicated in the proper decimal position in the Display.
- After inputting the minute, confirm that the minutes are indicated as a 2-digit figure, before pressing the Next Button.
- If the Next Button is pressed while a figure is only indicated in the tens digit, it will be treated as a programming error and will not be accepted.
- However, when no further figure is input within 5 seconds after inputting a single digit, this figure will move to the units digit.
- When pressing the following buttons first, they will immediately be input in the units digit.
  For the date: "4"~"8" Buttons
  For the hour: "3"~"9" Buttons
  For the minute: "6"~"9" Buttons

Example: When programming a timer recording for a programme that will be broadcast on channel position 4 on the 3rd of the month, from 7:02 to 7:30.

1 Press the Programme Button.
- Press the Tape Speed Selector Button until the Indicator of the desired tape speed ("SP" or "LP") is lit in the Display.

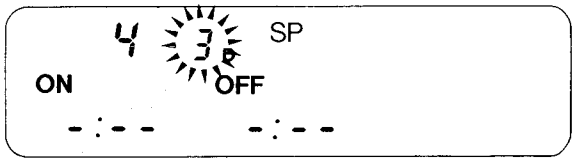


2 Press the Number Buttons to select the programme position (channel) on which the TV programme will be broadcast.



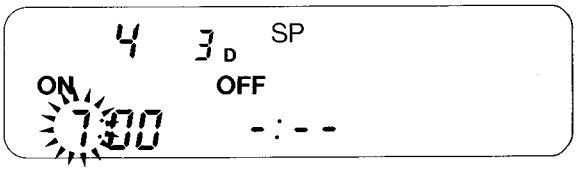
3 Press the Next Button.

4 Press the Number Buttons to set the date.



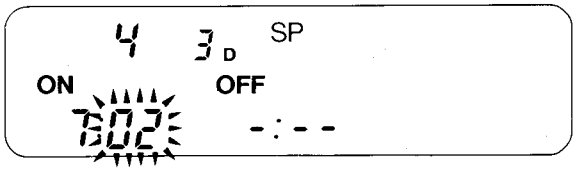
5 Press the Next Button.

6 Press the Number Buttons to select the hour of the starting time of the TV programme.



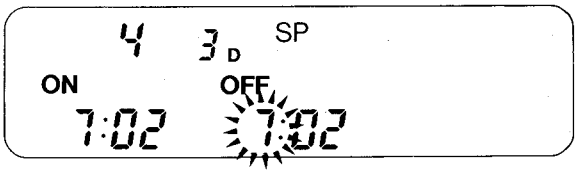
7 Press the Next Button.

8 Press the Number Buttons to select the minute of the starting time of the TV programme.



9 Press the Next Button.

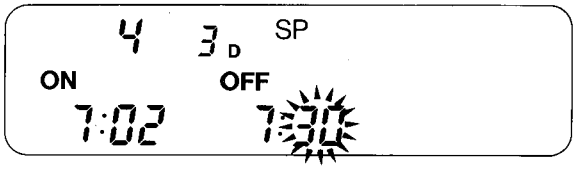
10 Press the Number Buttons to select the hour of the end time of the TV programme.



11 Press the Next Button.

Timer Recording (Cont'd)

12 Press the Number Buttons to select the minute of the end time of the TV programme.

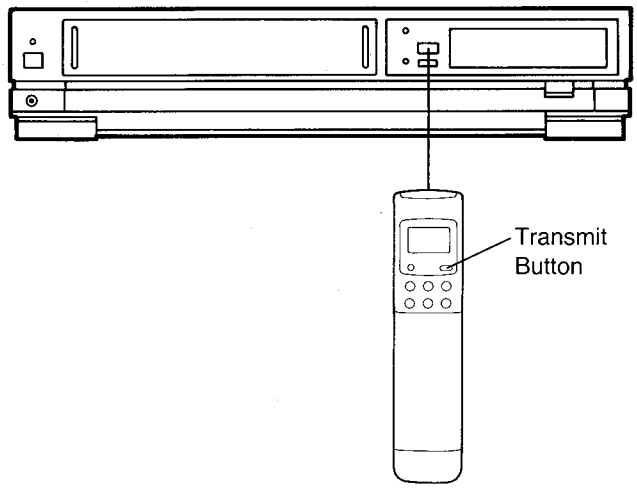


13 Press the Transmit Button.

- The tape speed (SP/LP) can be selected in any of the steps 1 to 12.
- When transmitting the programmed data to the VTR without selecting the desired tape speed (SP or LP is not lit in the Display), the tape speed indicated in the Multi Function Display on the VTR will be programmed for the timer recording.
- To immediately programme one more timer recording, press the Programme Button two times after transmitting the programming data of the first timer recording to the VTR. Then programme the second timer recording.
- If no operation is performed on the Remote Controller for more than 25 seconds, it will automatically switch over to the power-saving standby condition and the indications on the Display will disappear. In this case, the data which have not yet been transmitted to the VTR will be cancelled.

Transmit the Programming Data

Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.



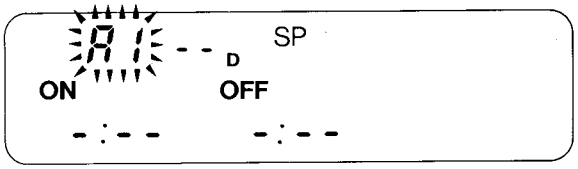
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- The programming will be done on the next lower unoccupied timer programme number (8–1).
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.
- To operate the VTR before the timer recording will be performed, press the Timer Record Button to suspend the timer recording standby condition. After using the VTR, be sure to press the Timer Record Button again, otherwise the timer recording will not be made.

Timer Recording from an External Source

For Example:
Programming a timer recording from some other AV equipment connected to the Audio/Video Input Socket on the 3rd of the month, from 7:02 to 7:30.

1 Press the Programme Button.

2 Press the Input Signal Selector so that the "A1" Indication is lit.



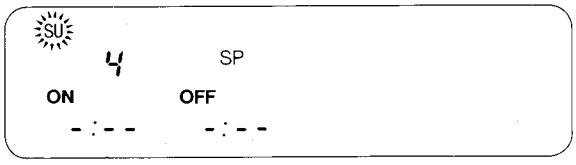
Perform the operation steps 3 to 13 on pages 24 and 25.

For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 7:02 to 7:30.

Perform the operation steps 1 to 3 on page 24.

4 Press the "9" Button and then the "1" Button within 5 seconds. The "SU" Indication (=Sunday) is lit.



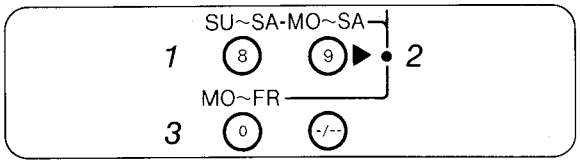
Perform the operation steps 5 to 13.

ENGLISH

Timer Recording (Cont'd)

For Everyday Recording

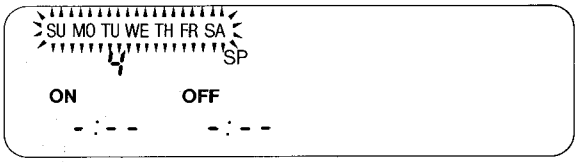
For Everyday Recording, you have the choice between 3 different modes: Sunday through Saturday *(1)*, Monday through Saturday *(2)*, and Monday through Friday *(3)*.



For Example:
Programming a timer recording for a TV programme that is broadcast everyday from 7:02 to 7:30.

Perform the operation steps 1 to 3 on page 24.

4 Press the "9" Button and then the "8", "9" or "0" Button within 5 seconds, according to the desired type of Everyday Recording *(1, 2, 3)*.



Perform the operation steps 5 to 13.

How to set Everyweek and Everyday Recording
First press the "9" Button and then press the desired Number Button according to the desired type of Everyweek or Everyday Recording.

Everyweek Recording

Sunday	MO~SA (9)	SU (1)
Monday	MO~SA (9)	MO (2)
Tuesday	MO~SA (9)	TU (3)
Wednesday	MO~SA (9)	WE (4)
Thursday	MO~SA (9)	TH (5)
Friday	MO~SA (9)	FR (6)
Saturday	MO~SA (9)	SA (7)

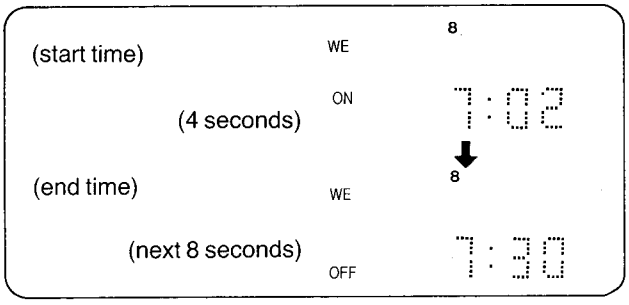
Everyday Recording

Sunday through Saturday	MO~SA (9)	SU~SA (8)
Monday through Saturday	MO~SA (9)	MO~SA (9)
Monday through Friday	MO~SA (9)	MO~FR (0)

The second button must be pressed within 5 seconds after the first button.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Record Function is set to "On".
Make sure that no figures are indicated in the Display of the Remote Controller.
Select the programme number to be checked, by repeatedly pressing the Transmit Button.
The preset channel and starting and ending times of the timer recording will be indicated for about 12 seconds.



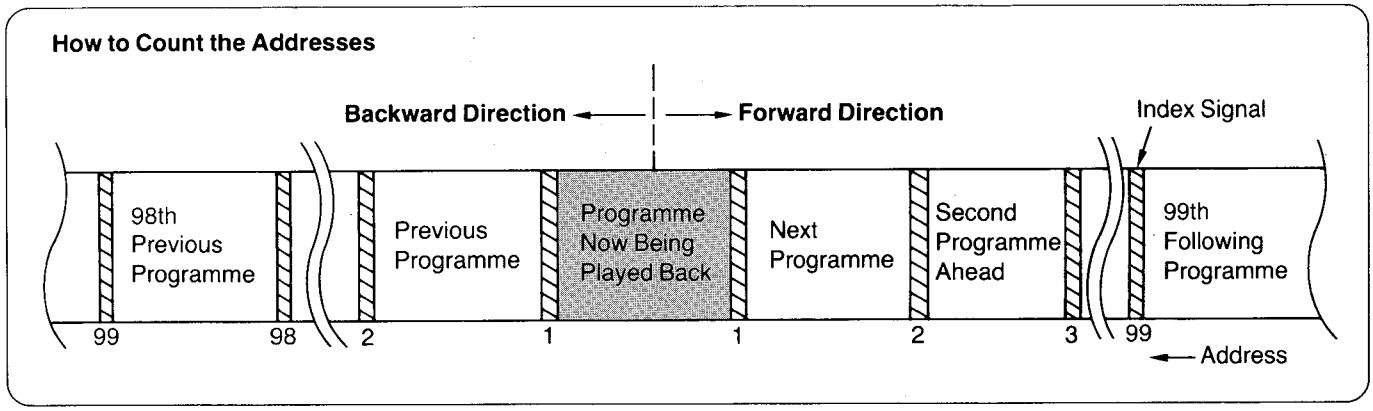
To Cancel a Timer Recording

Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

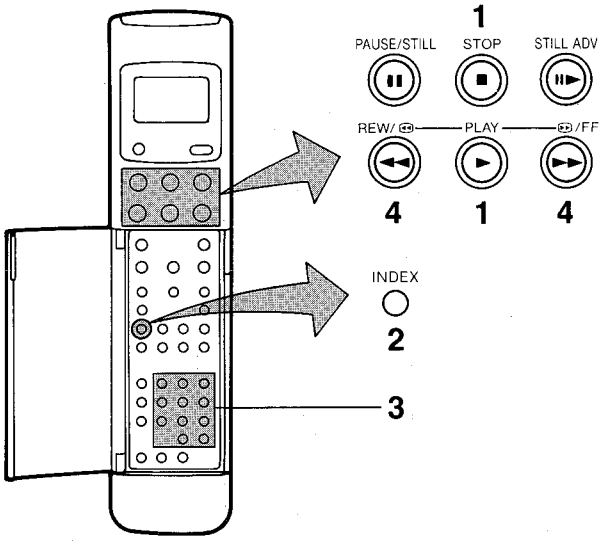
1 Press the Transmit Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the Clear Button.

VHS Index Search System

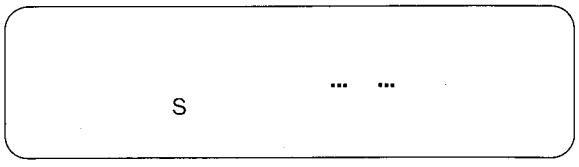


With the VHS Index Search function, up to 99 addresses (places where index signals are recorded) can be skipped to directly locate the beginning of the desired programme in both forward and reverse direction in the Fast Forward or Rewind mode.

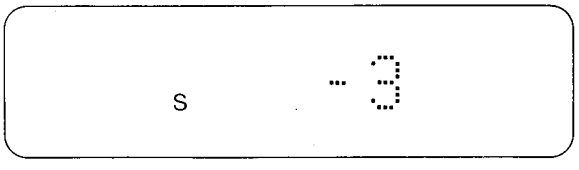


1 Press the Play Button (▶) or Stop Button (■).

2 Press the Index Button. The "S" Indicator lights up.



3 Input the number of programmes that you want to skip by pressing the number buttons.



- If you made a mistake, press the Index Button twice and input the correct number.

4 Press the Rewind ◀◀/Review ⏪ or Fast Forward ▶▶/Cue ⏩ Button to start the VHS Index Search function (the VTR will switch to the rewind or fast-forward mode).

- Every time an index signal (address) is skipped the number in the Address Indication decreases by one.
- When the preset address is reached, the Tape Counter Indication will appear in place of the Address Indication, and the normal playback will start.
- To abort the Index Search function midway, press the Play or the Stop Button.

Recording of Index Signals

While recording an index signal, the indication "WRITE" on the Multi-Function Display lights up for a few seconds. Index signals will be recorded automatically in the following cases:

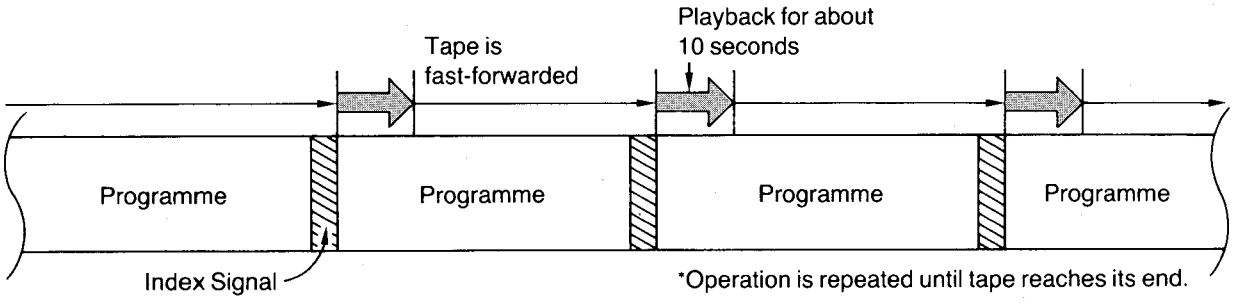
- At the tape position at which the Record Button is pressed to start recording.
- At the tape position at which a Timer Recording is started.
- At the tape position at which an OTR recording is started.
- When pressing the Record Button during recording.

- When activating the VHS Index Search function from the Still playback mode, the Playback will start when the selected programme is reached.
- If the VHS Index Search function is started extremely close to the beginning of the next programme (place where an address signal is recorded) or from the beginning of the tape, the first address may not be counted.
- If there are unrecorded parts on the tape, or if recordings have repeatedly been made on the same tape portion, the VHS Index Search function may not work correctly.
- The VHS Index Search function can only count the addresses correctly, if the index signals are spaced at least 3 minutes in the SP mode and 5 minutes in the LP mode.

ENGLISH

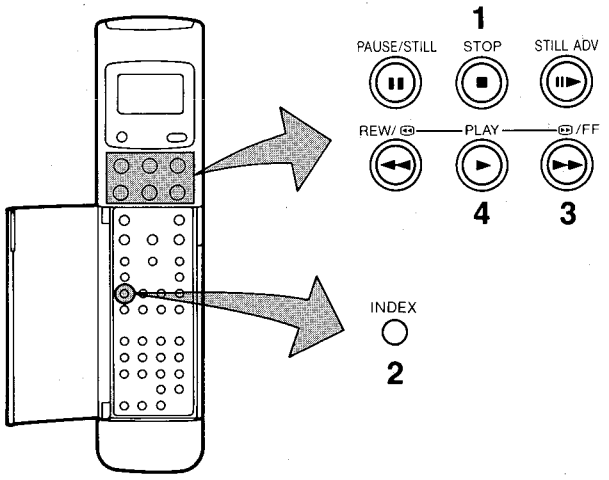
Intro Scan Function

How the Intro Scan Function Works...



The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another. This is convenient for quick checking what programmes are on a tape, or to find the desired instalment of a TV series you have recorded on a tape.

Intro Scan Operation



1 Insert a video cassette.
(Put the VTR in the stop mode.)

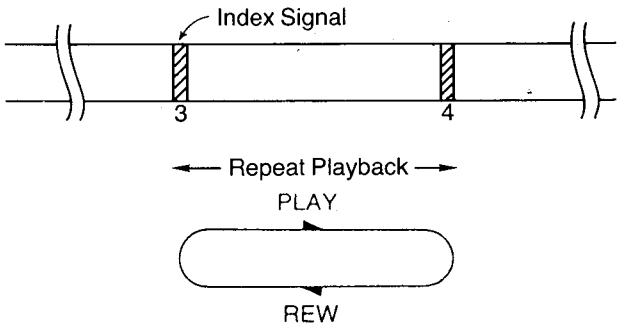
2 Press the Index Button. The "S" Indicator lights up.

3 Press the Fast Forward ▶▶/Cue Button.
(The Intro Scan starts.)

4 When the desired scene is reached, press the Play Button (▶).

- The Intro Scan function may not be activated for the first programme recorded close to the beginning of the tape.
- The Intro Scan function may not be activated, if the interval between programme starts is less than 5 minutes in the LP mode, or less than 3 minutes in the SP mode.

Performing Index Repeat Playback



1 Press the Index Button.

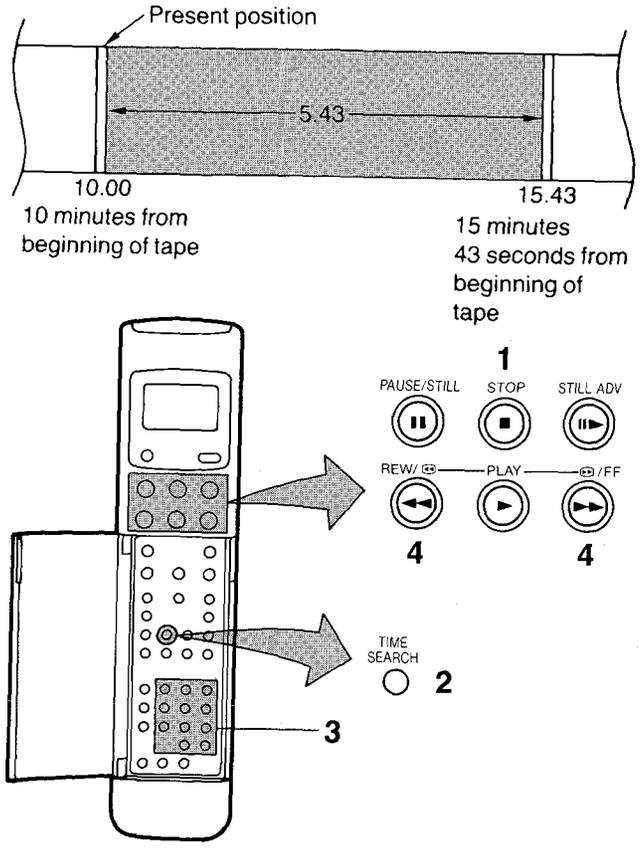
2 Press the Repeat Button. The "RS" Indicator lights up and playback starts.
- When the next index signal is found, the tape will be rewound. When the index signal, where the playback is to start, is found, the playback will restart. In this way, automatically repeated playback can be performed for a tape portion as defined by the number of index signals that are skipped.

3 To stop the Index Repeat playback, press the Stop Button.

If Index Repeat playback is performed on a tape for long periods of time, the picture quality may become inferior.

Time Search

The Time Search function makes it possible to quickly advance the tape from any position by inputting the exact desired amount of playback time of the part that you want to skip.



Time Search from the Stop Mode

1 Put the VTR in the stop mode.

2 Press the Time Search Button.
The indication in the Multi-Function Display changes as shown below.

COUNT ... : ... ...

3 Input the time of the desired scene.
- The time is input by pressing the number buttons in the order: hour, minute, second.
- The "–" indication will be counted as "0".

COUNT 0:05.43

4 Press the Fast Forward ▶▶/Cue ⏩ Button or the Rewind ◀◀/Review ⏪ Button.
The playback starts after rewinding or fast forwarding to the tape position of the designated time.

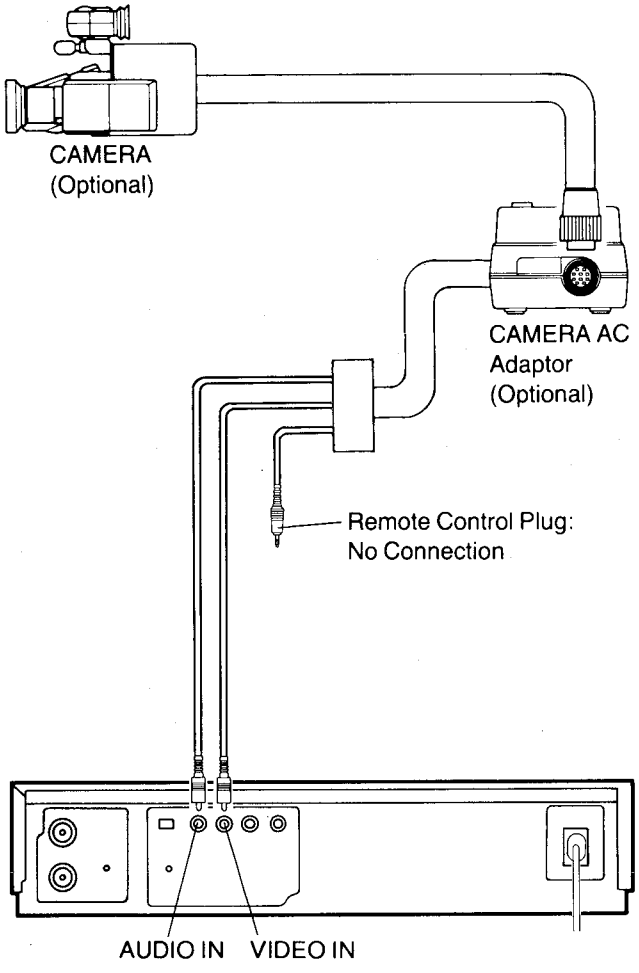
Time Search from the Play Mode

The operation is the same as that for the stop mode but in operation step 4, the Cue or Review playback is performed to the tape position of the designated time and the playback will then start.
If the time search function is activated during playback, a time of up to 59 minutes 59 seconds can be input.

- The numbers in the Tape Counter do not change during parts of the tape on which there is no recording.
- When the tape is inserted, the Tape Counter will automatically be reset to "0:00.00".

ENGLISH

Camera Recording



- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will stop automatically to protect the tape and the video heads.
- Even if the video camera is equipped with video recorder remote control functions, this VTR can not be remote-controlled from the camera.

Preparation

- Connect the Video Camera via the Camera AC Adaptor to the VTR as shown in the illustration above.
- Press the Input Signal Selector on the Remote Controller to select the"A1"programme position (or select with the Channel Up or Down Button on the VTR).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Set the Tape Speed Selector to "SP" or "LP".
- Confirm that no microphone is connected to the VTR.

1 Turn the Camera AC Adaptor on and make the necessary adjustments on the camera.
Refer to the operating instructions of the camera you are using.

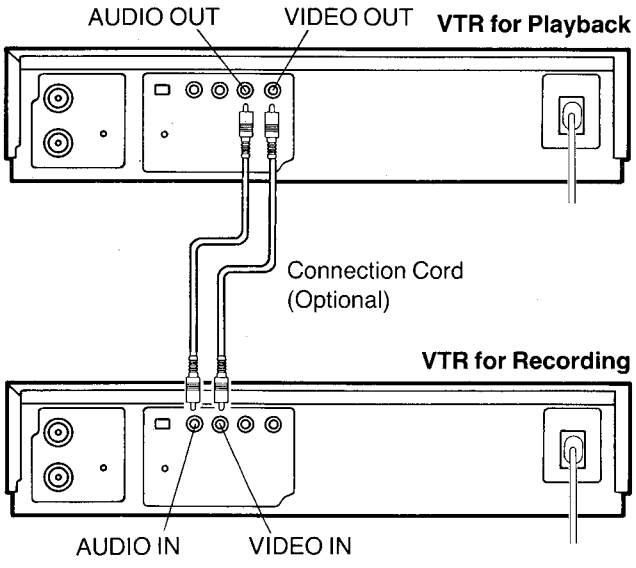
2 Press the Record Button on the VTR to start recording.

Avoid recording unwanted material:
Press the Pause/Still Button (❚❚) of the VTR, and the recording will stop temporarily. To restart recording, press the Pause/Still Button (❚❚), again.

3 Press the Stop Button (■) on the VTR to stop the recording.

Dubbing (Copying)

Dubbing (copying) from one video cassette to another.



Preparation

- Make the necessary connections as shown in the connection diagram.
- Press the VTR On/Off Switches to turn both VTRs on.
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Make sure that the Noise Filter/Edit Selector of both the recording and playback VTRs (if equipped) are in the "EDIT ON" position. Set these switches to "OFF" for ordinary use of the VTRs.
  (The Noise Filter/Edit Selector is on the front panel.)
- Select the PAL or MESECAM system.
- Confirm that no microphone is connected to the VTR.

1 Place the recorded cassette in the playback VTR and a blank video cassette with the erasure prevention tab intact in the recording VTR.

2 Press the Record Button on the recording VTR.

3 Press the Play Button (▶) on the playback VTR.

4 Press the Stop Button (■) on both VTRs to stop the dubbing.

- To assure smooth, noiseless cuts when interrupting the recording, always use the Pause/Still Button (❚❚).
- To obtain smooth cuts when starting the recording from the stop mode:
  1. Play back the last part of the previously recorded material to confirm its ending point, and then press the Pause/Still Button (❚❚).
  2. Press the Record Button.
     (The VTR is still in the pause mode.)
  3. To start recording, press the Pause/Still Button (❚❚) again.
- The picture quality of a re-recorded tape is not as good as that of the original.

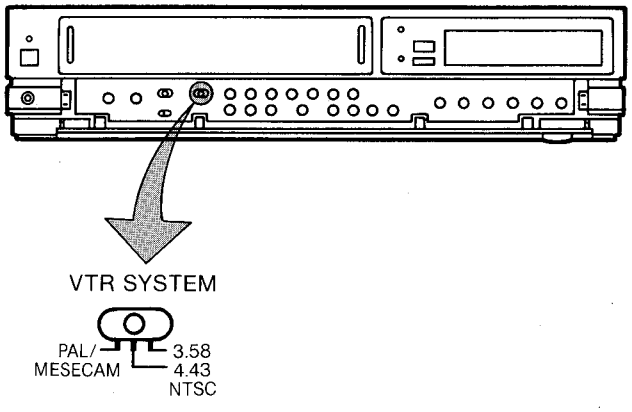
VTR System Selector

When dubbing an NTSC system tape, set the VTR System Selectors on both the recording and playback VTRs to "4.43" or "3.58".

When dubbing NTSC 4.43 system:
Set the VTR System Selector to "4.43".

When dubbing NTSC 3.58 system:
Set the VTR System Selector to "3.58".

- When the VTR System Selector is set to "4.43" or "3.58", PAL signals cannot be recorded correctly.
- When dubbing a PAL system tape, set the VTR System Selectors on both the recording and playback VTRs to "PAL/MESECAM".



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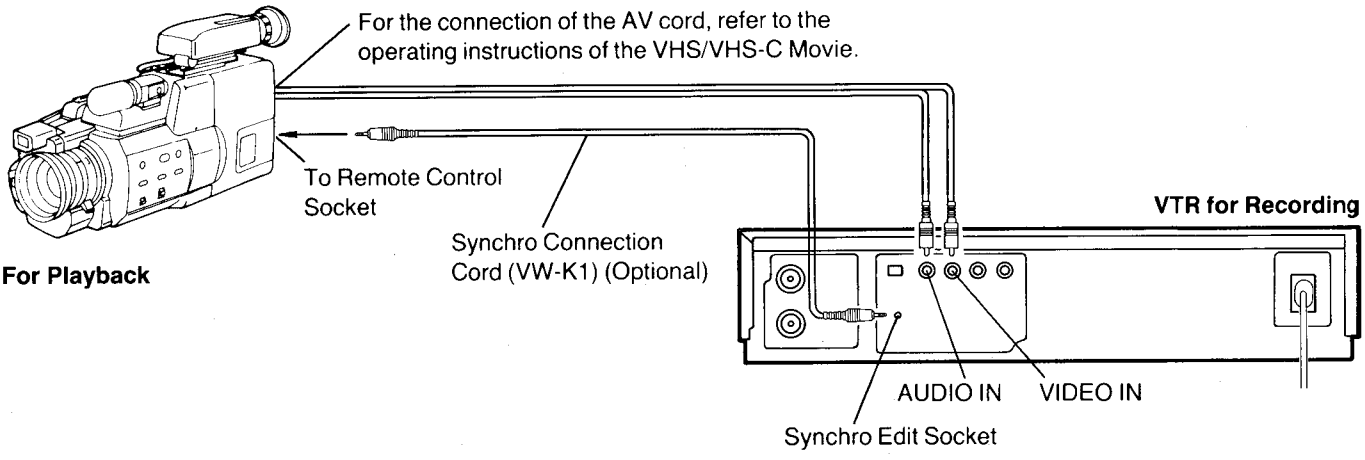
Dubbing (Copying) (Cont'd)


For the connection of the AV cord, refer to the operating instructions of the VHS/VHS-C Movie.
To Remote Control Socket
Synchro Connection Cord (VW-K1) (Optional)
VTR for Recording
For Playback
AUDIO IN
VIDEO IN
Synchro Edit Socket

Connecting to a Movie Camera Equipped with Synchro Edit Function

It is possible to synchronize the playback start and stop of the Movie Camera with the recording start and stop of this VTR.

Preparation

- Make the necessary connections as shown in the connection diagram.
- Set the Edit Switch (Noise Filter/Edit Selector) on both the Movie Camera and this VTR to "ON" (or "EDIT ON").
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Select the PAL or MESECAM system.
- Confirm that no microphone is connected to the VTR.

1 Put the VTR in the recording pause mode.

2 Put the Movie Camera in the still playback mode.
- Put the Movie at the point where you want to start editing into the still playback mode.

3 Press the Pause/Still Button on the VTR.
- The Movie Camera changes over to the playback mode and the dubbing will start automatically.

To Leave Out Unwanted Scenes

1 Press the Pause/Still Button on the VTR.
The VTR changes over to the recording pause mode and the Movie Camera changes over to the still playback mode.

2 Operate the Movie Camera to skip the unwanted scenes and then put it in the still playback mode again.

3 Press the Pause/Still Button on the VTR.
- The dubbing will restart.

To stop the dubbing, press the Stop Button on the VTR and then put the Movie Camera in the stop mode.

Synchronized Editing between the VTRs

When editing from another VTR equipped with Synchro Edit Socket, synchronised start and stop of both VTRs can be activated from this VTR.

The operation is the same as described on the left for synchronized editing from a Movie Camera.

Before Requesting Service

Before requesting service, check the following points once again.

SYMPTOM	CAUSE	REMEDY
Power doesn't turn on.	Mains lead is not connected.	Connect mains lead to mains outlet.
	The Timer Record Function is set to "On".	Set the Timer Record Function to "Off".
Power is on but unit doesn't operate.	Safety devices are operating.	Turn off the VTR On/Off Switch, disconnect mains cord from outlet, then reconnect mains cord to mains outlet and turn on the VTR On/Off Switch again.
	Dew condensation inside the VTR.	Wait until the Dew Indicator "☝" goes off.
VTR has turned itself off.	Safety devices are operating.	Turn the VTR on agian by pressing the VTR On/Off Switch.
TV programmes cannot be recorded.	Connection of aerial lead is not correct.	Connect aerial lead correctly.
	Reception channel is not properly tuned.	Tune reception channel.
Sound of TV programmes cannot be recorded.	A microphone is connected to the VTR.	Disconnect the microphone from the VTR.
OTR Function (One-Touch Timer Recording) cannot be performed.	Clock is flashing "0:00".	Set clock to present time.
Unattended timer recording cannot be performed.	Recording start or recording stop time setting is incorrect.	Set recording start and recording stop time correctly.
	The Timer Record Function is set to "Off".	Set the Timer Record Function to "On".
	Clock shows incorrect time.	Adjust clock to present time.
	Clock is flashing "0:00".	Set clock time and perform timer setting.
Recording via external input terminals cannot be performed.	The programme position "A1" is not selected.	Select the programme position "A1".

Before Requesting Service (Cont'd)

SYMPTOM	CAUSE	REMEDY
Playback picture is not in colour. Playback picture has large amounts of "snow".	Reception channel was not adjusted correctly during recording.	Readjust reception channel correctly.
	TV set is not properly tuned to the video playback channel of the VTR.	Properly tune the TV set to the video playback channel of the VTR.
	The video heads are clogged with dirt.	Consult qualified service personnel.
	The video heads are abraded.	Consult qualified service personnel.
	Tape is old and/or defective.	Use new tape.
Remote Controller does not work.	Remote Controller is not being pointed at Infra-red Receiver Window on the VTR.	Point the Remote Controller at Infra-red Receiver Window on the VTR.
	Distance is too far.	Use the Remote Controller within 7 m from the VTR.
	An obstacle is between Remote Controller and VTR.	Remove obstacle.
	Batteries are exhausted.	Replace batteries.
	Battery polarities (+, −) are reversed.	Insert batteries correctly.
Transmission from the Remote Controller to the VTR cannot be performed.	The VTR is turned off.	Turn the VTR on.
	The VTR is in an operation mode.	Put the VTR into the stop mode.
	There is no unoccupied timer programme number left.	A maximum of 8 timer recordings can be programmed at the same time.

Specifications

NV-J22AM

Information for Your Safety

Power Source:	110–240 V (AUTO VOLTAGE) AC 50–60 Hz
Power Consumption:	Approx. 26 watts

Video Recording System:	2 rotary heads, helical scanning system
Video Heads:	4 heads
Tape Speed:	SP; 23.39 mm/sec. LP; 11.695 mm/sec.
Tape Format:	VHS tape
Record/Playback Time:	SP; 240 min. with NV-E240(VHS) LP; 480 min. with NV-E240(VHS)
FF/REW Time:	Approx. 2.5 min. with NV-E180

VIDEO

Television System:	CCIR; 625 lines, 50 fields, PAL colour signal		
Modulation System:	Luminance; FM azimuth recording Colour signal; converted subcarrier phase shift recording		
Input Level:	VIDEO IN (PHONO);	1.0 Vp-p,	75 ohm
Output Level:	VIDEO OUT (PHONO);	1.0 Vp-p,	75 ohm
	RF Modulated;	D.K. K1; UHF channel C25 (24–27),	75 ohm, terminated
		B.G; UHF channel E38 (32–40),	75 ohm, terminated

AUDIO

Input Level:	AUDIO IN (PHONO);	more than −10 dBV,	more than 50 kohm
	MICROPHONE;	−50 dBV,	more than 600 ohm
Output Level:	AUDIO OUT (PHONO);	−6 dBV,	less than 1 kohm
Audio Track:	1 track (Normal-mono only)		

Video Horizontal Resolution:	Colour; more than 240 lines (SP)
Signal-to-Noise Ratio:	Video; more than 43 dB (SP) Audio; more than 43 dB (SP)
Audio Frequency Response:	80 Hz–10 kHz (SP)
Operating Temperature:	5°C–40°C
Operating Humidity:	35%–80%
Weight:	5.0 kg
Dimensions:	380 (W)×82 (H)×344.5 (D) mm
Standard Accessories:	1 pc. DIN-DIN Coaxial Cable 1 pc. Remote Controller 2 pcs. "R6" size batteries 1 pc. AC Mains Lead 1 pc. Separate Transformer Adaptor

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

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您的安全信息

重要事項

請注意，對原影帶、影像盤以及其它出版物或廣播材料進行錄影時，可能會引起侵犯版權的問題。

警告

爲了防止火災或觸電事故，請不要將該機放置於淋雨處或潮濕處。

注意

不適用於奧大利亞。

注意

1. 本錄放影機可接收SECAM廣播節目(SECAM B/G)，並可錄影／放映其彩色電視信號。
2. 本錄放影機上錄製的磁帶被放映於SECAM錄放影機時，畫面可能是黑白的。而放映於未配備 SECAM 放映能力的 PAL 錄放影機時，畫面也許不能以正常彩色播出。
3. 在SECAM錄放影機上錄製的磁帶或SECAM原影帶放映於本錄放影機時，畫面將是黑白的。
4. 本錄放影機的設計未考慮法國，該國使用SECAM系統錄放影機。

爲了您的安全

■請不要拿掉外殼

爲了防止電擊，請不要拿掉外殼。機內沒有用戶可維修的部件。請將維修工作委托給專業維修人員。

HQ（高畫質）影像系統

帶有HQ符號標記的錄放影機配備有新型VHS高畫質影像系統。該系統保證了與採用普通VHS系統的錄放影機的完全兼容性。

注意事項

在操作該錄放影機之前，請您閱讀這些注意事項。

磁帶室門

當您第一次拆開該機的包裝箱時，您會注意到磁帶室門是部分開啓的。這決不是一種故障，而是因爲機內一個安全儀器的工作所造成的狀態，該儀器被設計來防止本機在運輸途中的振動。將電源線接至電源插座之後，磁帶室門將回到它的最初位置。

避免温度的驟然變化

當錄放影機從較冷的地方突然移到較熱的地方時，在磁帶和錄放影機內可能會凝聚濕氣。這時，濕氣指示燈"⌂"將閃動，錄放影機將不能操作。

濕度和灰塵

請避免高濕度和灰塵很多的地方，否則會引起錄放影機內部部件的損壞。

不要堵塞通風孔

通風孔用來防止溫度的不正常上昇。請不要堵塞這些孔，特別要避免用諸如布和紙之類的軟材料遮蓋這些孔。

避免接近高温

請避免使錄放影機接近直接熱源，如直射太陽光、散熱器等，也要避免放置於封閉的小汽車內。

挪開磁性體

絕不要將磁鐵或被磁化的物體放置於錄放影機附近，因爲這將給錄放影機的性能以有害的影響。

不要用手指或其它物體觸弄內部

觸弄該錄放影機的內部部件是很危險的，可能會引起錄放影機的嚴重損壞。請不要試圖拆卸錄放影機，機內沒有用戶可維修的部件。

避免接觸水

請不要使錄放影機靠近花瓶、水盆和水槽等。
注意：如果有液體流進錄放影機，則可能會發生嚴重的故障。如果您已將液體弄進錄放影機，則請與專業維修人員商談。

雷擊

爲避免雷擊，請將錄放影機上的室外天線插頭拔下。

清掃錄放影機

請用清潔乾燥的布清掃錄放影機。絕不要用清潔劑或其它化學物品，也請不要用壓縮空氣來掃除灰塵。

放置

請將錄放影機放置於水平位置，並且不要在其上堆放重物。

影像磁頭堵塞

影像磁頭是這樣一種工具，錄放影機通過它們在錄影時將影像信號放置於磁帶上，在放映時，從磁帶上讀出影像信號。因而，磁頭是決定影像質量最重要的因素。爲了確保磁頭能長期提供最佳影像質量，本錄放影機配備有自動磁頭清洗功能，可從影像磁頭上挪去磁帶微粒和灰塵。然而，當本錄放影機經過很長時間使用時，這些磁頭仍將可能會變髒和堵塞。這時，信號就再不會被正確地錄製，放映的畫面也會因此而變形。例如會出現這樣的情況，放映一盒磁帶時，聲音播放正常，但沒有畫面，或者畫面嚴重失真。當出現諸如此類的情況時，請讓專業維修人員爲您檢查錄放影機。

如果錄影機內發生濕氣凝結

在下列情況下，錄放影機內會發生濕氣凝聚：

- 錄放影機在一間剛打開暖氣的房間內。
- 錄放影機在一間有蒸氣或濕度高的房間內。
- 錄放影機從一個較冷的環境移到一間充分加熱過的房間內。
- 錄放影機從一個較凉爽的環境，例如一個有空調的房間或汽車內，突然移至一個很熱且較潮的地方。

錄放影機內凝聚濕氣時：(参看第39頁)

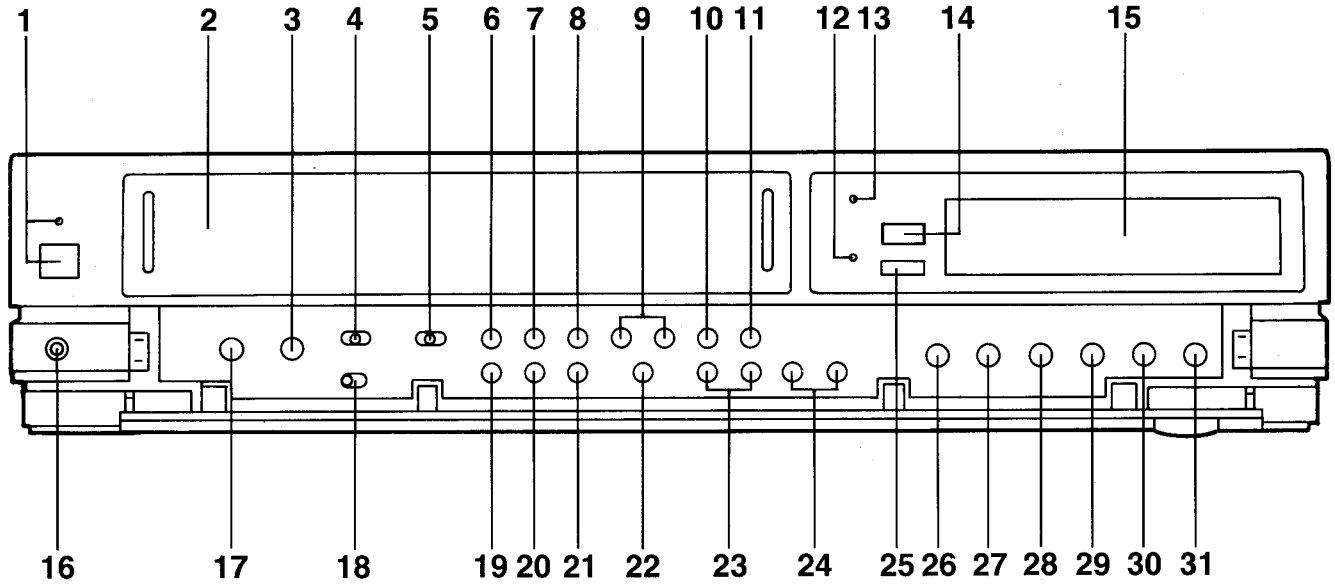
多功能顯示屏上濕氣指示燈"⌂"將閃動，所有的功能鈕都不能操作，以保護磁帶和影像磁頭。
濕氣指示燈閃動時，請等待該指示燈消失。

- 如果錄放影機內凝聚濕氣時錄放影機通／斷開關處於關的位置，則它將自動打開，濕氣指示燈將閃動。濕氣消失後，錄放影機將再次自動關閉。

中文

控制器和組件

前部



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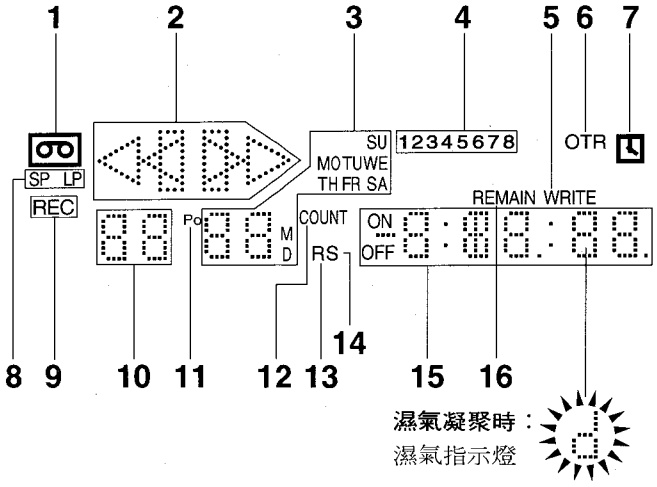
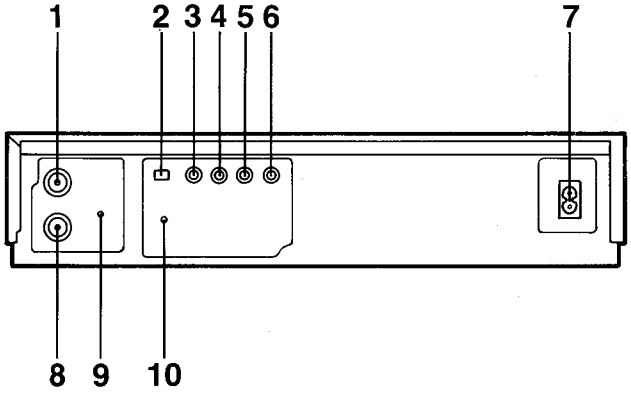
控制器和組件(續前)

多功能顯示屏



後部



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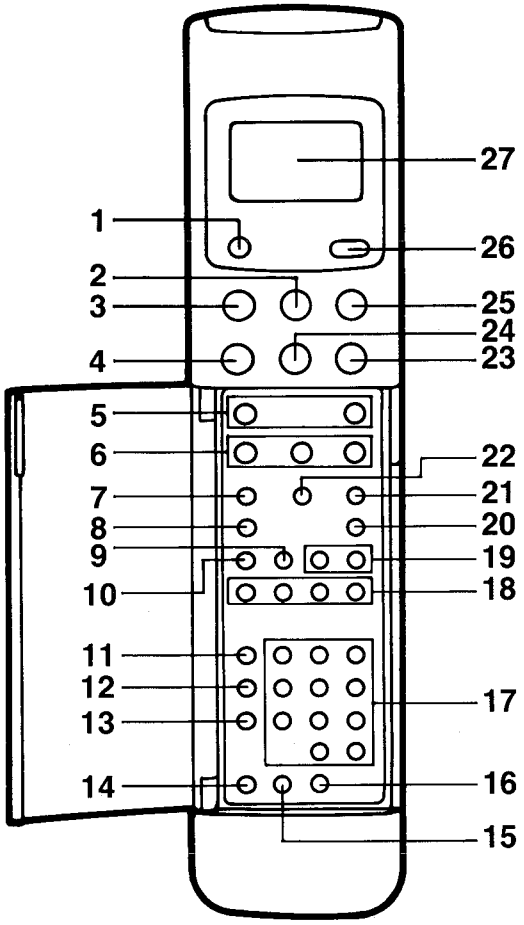
紅外線遙控器



1 錄放影機通 / 斷鈕

2 停止鈕(■)

3 暫停 / 静止鈕(II)

4 倒帶◀◀ / 倒帶檢索 ⏪ 鈕

5 錄影鈕(●)

6 慢動作鈕

7 時鐘 / 計時器選擇器

8 監視鈕

9 時間檢索鈕

10 目錄鈕

11 節目鈕

12 其次鈕

13 磁帶速度選擇器

14 定時錄影鈕

15 清除鈕

16 PAL/MESECAM選擇器

17 節目位置(頻道)選擇鈕

18 自動放映鈕

19 磁迹調整 / 垂直鎖定 "+" "—" 鈕

20 輸入信號選擇器

21 重新鈕

22 磁帶剩餘鈕

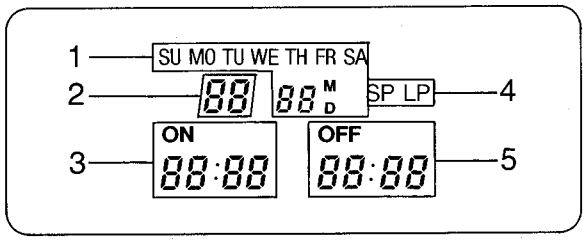
23 快進▶▶ / 快進檢索 ⏩ 鈕

24 放映鈕(▶)

25 静止步進鈕(II▶)

26 傳送鈕

27 顯示屏



1 日期顯示

2 頻道顯示

3 開始時間顯示

4 磁帶速度指示燈

5 結束時間顯示

紅外線遙控器(續前)

遙控器的電源

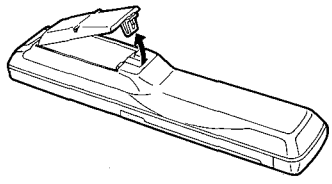
■遙控器由兩節 IEC "R6" 型電池供電。電池壽命約爲一年，然而取決於使用的頻度。請每年檢查一次電池，並且在認爲有必要的時候將其更換掉。

更換電池時的注意事項

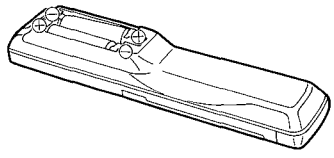
- 安放新電池時注意其極性(＋和－)。
- 請不要對電池加熱，否則可能會發生內部短路。
- 如果您打算在較長一段時間內不使用遙控器則請將電池取出並放置於陰凉乾燥處。
- 及時將耗盡的電池取出並處理掉。
- 請不要將新電池和舊電池混合使用。(也絕不能將鹹性電池和錳電池混合使用。)

請按下列順序安裝電池：

1 將電池盒的蓋取下。



2 請按照電池盒中指示的極性方向插入電池。



3 重新蓋好蓋。

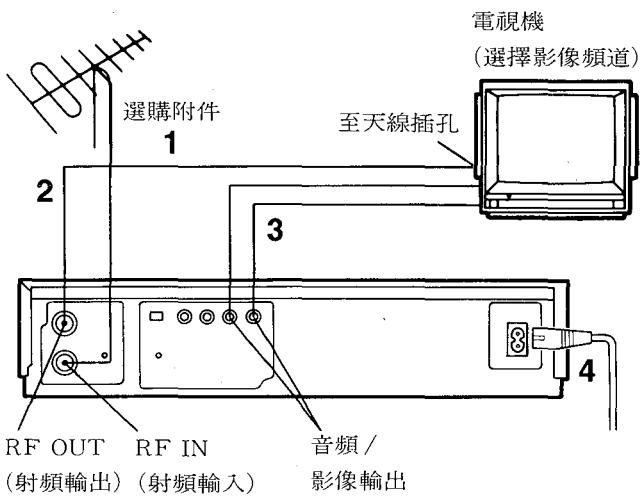
注意：

- 紅外線光束必須直接對準錄放影機前部的紅外線遙控信號接收窗。
- 直接的陽光可能會干擾紅外線光束。
- 錄放影機上紅外線遙控信號接收窗的感光角度爲從中間起兩邊各約30度。
- 本遙控器須在距離錄放影機前部約 7 米內使用。

中文

安裝

連接至電視機



1 將室外天線連接至錄放影機的RF(射頻)輸入插孔。

2 用提供的DIN-DIN同軸纜線將電視機的天線端子連接至錄放影機的RF(射頻)輸出插孔。

- 在高溫和高濕度的地方，皮膚敏感的人可能會感覺到帶電。這時，請使用分離變壓器轉接器。

3 如果電視機配備有分離影像和音頻輸入插孔，則建議您使用分離影像和音頻纜線（未提供）連接錄放影機和電視機。

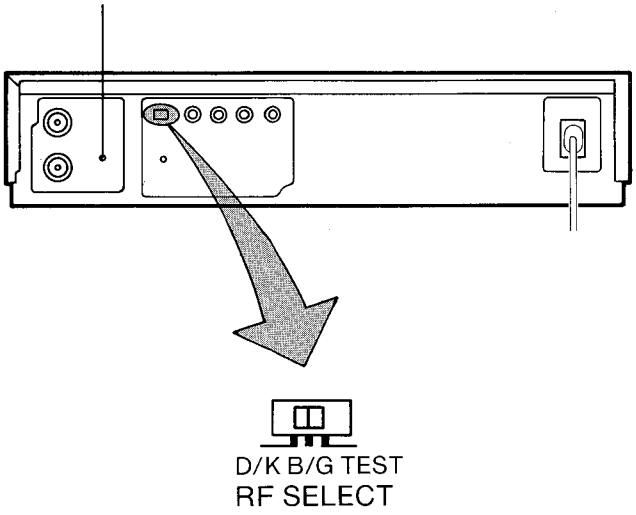
4 用交流電源纜線連接錄放影機的交流電源插孔和電源插座。

將電視機調諧至影像放映頻道

如果錄放影機通過影像／音頻輸出插孔連接至電視機，則本頁說明的調整便不需要了。

影像放映頻道調整器

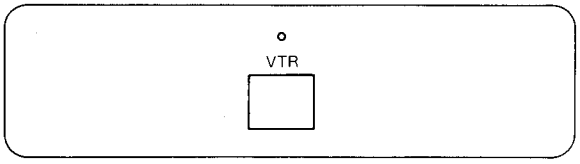
可改變影像放映頻道。



1 打開電視機並選擇 AV 節目位置或另一未被電視台占據的節目位置。

2 按錄放影機通／斷開關將其打開。

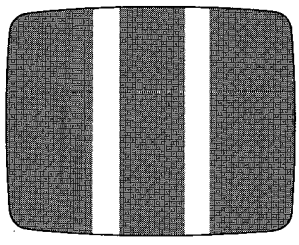
(前面)



- 相應的指示燈會亮。

3 將RF（射頻）選擇器／測試信號開關設至"TEST"。

4 將電視機上所選節目位置調諧至UHF的大約C25頻道（D.K.K1）或E38頻道（B.G）。
確認您的電視機可接收到如下的測試信號。

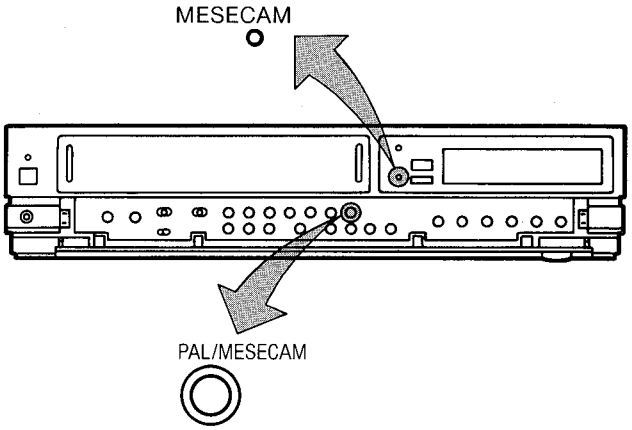


- 如果UHF的E38（C25）頻道已被您所在地區的電視台占據，則可用小起子在錄放影機的背後將影像放映頻道在32至40（24至27）頻道之間變化。
- 使用D.K.K1系統電視機時，僅能聽到噪音（嘶嘶聲）。然而，這並不意味着故障。

5 將RF（射頻）選擇器／測試信號開關設至適合您的電視機所用的電視系統的位置。電視機現在便可接收錄放影機來的RF輸出信號。

PAL/MESECAM選擇器

該選擇器應根據錄影和放映中所用的電視系統來選擇。
當選擇MESECAM系統時，MESECAM指示燈會亮。



AV信號輸入時

- PAL：　接收PAL信號時
- MESECAM：接收SECAM信號時

放映時

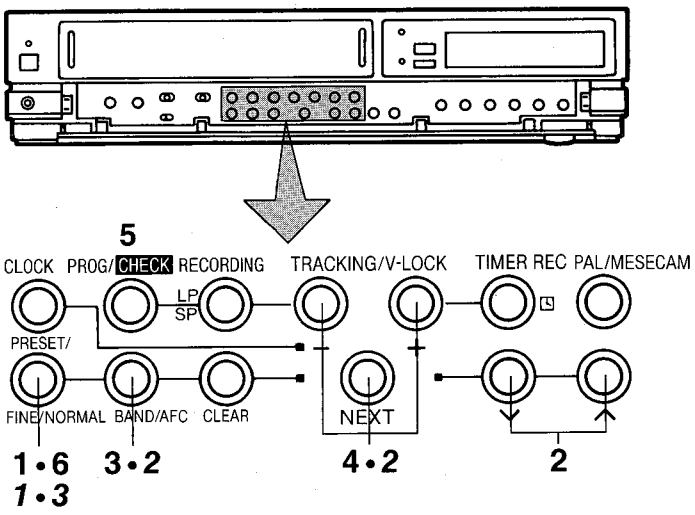
- PAL：　播放以PAL系統錄製的磁帶時
- MESECAM：播放以MESECAM系統錄製的磁帶時

錄製從本錄放影機的內置調諧器來的廣播信號時，由於系統被鎖定於預調系統，故不能使用 PAL/MESECAM 選擇器。

中文

設定錄放影機的調諧器

錄放影機的調諧器可使您在不打開電視機的狀態下收錄電視節目。



準備

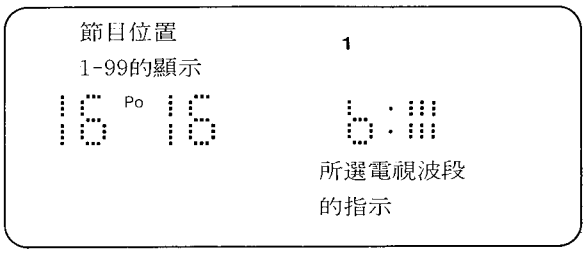
- 打開電視機開關，選擇您已經調諧至影像放映頻道的節目位置(頻道)。
- 按錄放影機通／斷開關將其打開。

調諧步驟

1 按錄放影機的預調/微調/正常鈕(PRESET/FINE/NORMAL)。多功能顯示屏上的指示將由時鐘指示變爲位置指示。

2 按頻道上或下鈕，選擇一個您想調諧至某一電視台的節目位置(頻道)。

3 按波段/AFC鈕，選擇“Ⅰ”、“Ⅲ”或“U”位置。

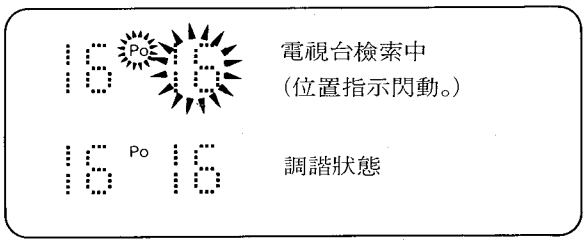


	VHF		UHF
	Ⅰ	Ⅲ	U
CHINA (D)	1–5	6–12	13–57
EAST EU (D,K,K1)	1–5	6–12	21–69
CCIR STD (B,G)	2–4	5–12	21–69

錄放影機的調諧器可預調達99台。

4 按“＋”或“－”鈕直至電視機上希望的電視台的畫面滿意爲止。

- 如果按住其次鈕的同時按“＋”或“－”鈕，則電視台會快速變化。



- 調諧好的電視台會被自動記憶下來。

5 可使用節目/檢查鈕選擇要調諧的電視台的廣播系統。多功能顯示屏上將顯示“1”(PAL)或“2”(MESECAM)。

- 1 (PAL)……用於接收PAL系統廣播
- 2 (MESECAM)…… 用於接收MESECAM系統廣播
  MESECAM指示燈會亮
- 要記憶廣播系統時，必須按節目／檢查鈕。因此即使指示“2”出現在多功能顯示窗上，也需按節目／檢查鈕兩次，以便將指示先變爲“1”然後再變回到“2”。

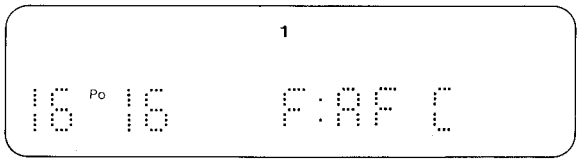
重復步驟2-5選擇每一個您想調諧至電視台的頻道。

6 按預調/微調/正常鈕(PRESET/FINE/NORMAL)兩次。
多功能顯示屏上的指示將變回到時鐘指示。

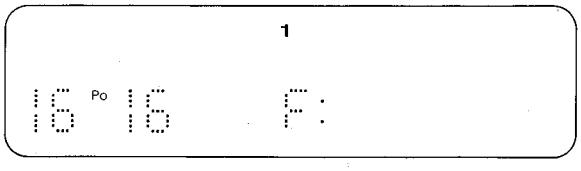
微調步驟

如果需要微調，例如一弱電視台緊靠一強電視台，則請按下列步驟進行。

1 按預調/微調/正常鈕(PRESET/FINE/NORMAL)兩次。



2 按“＋”或“－”鈕直至獲得最佳調諧狀態。

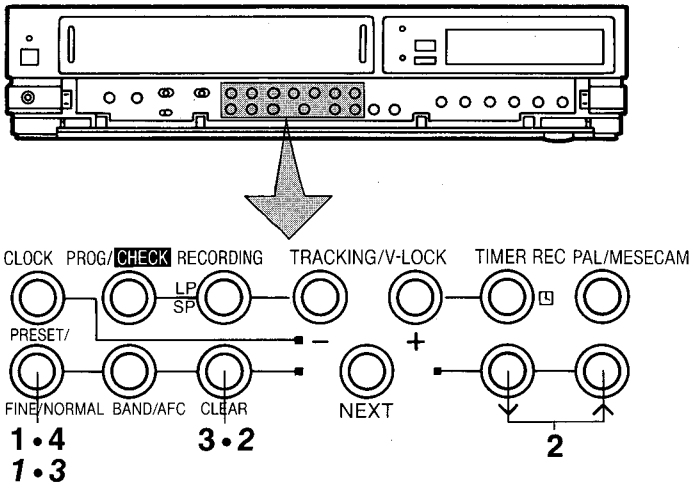


- “AFC”指示燈將不被顯示。

- 要回到先前的狀態時，請按波段/AFC鈕。

3 按預調/微調/正常鈕(PRESET/FINE/NORMAL)。

設定錄放影機的調諧器(續前)

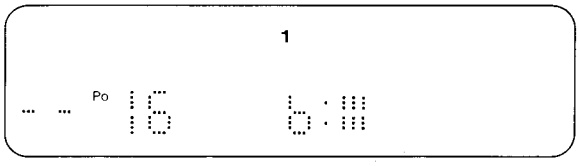


遮沒未被占據的節目位置

1 按預調/微調/正常鈕(PRESET/FINE/NORMAL)。

2 按頻道上或下鈕，選擇一個您不想調諧至任一電視台的節目位置(頻道)。

3 按清除鈕(CLEAR)("--"將在節目位置指示處被顯示)。



- 對於每一個您不想調諧至電視台的節目位置，重復步驟 2 和 3。在這以後，在節目位置的上/下選擇時，這些位置都會被跳過。

4 按預調/微調/正常鈕(PRESET/FINE/NORMAL)兩次。

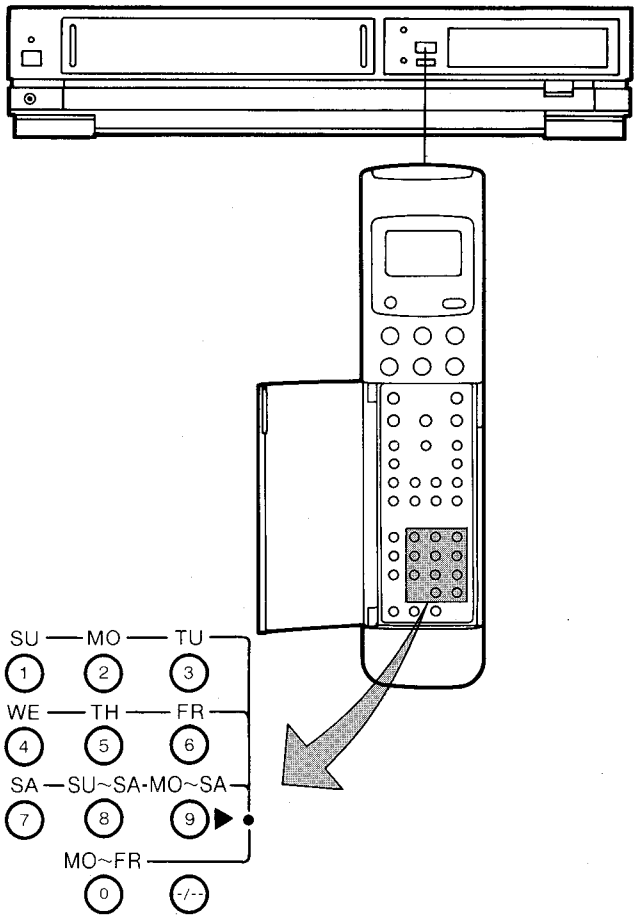
取消清除(遮沒)功能

1 按預調/微調/正常鈕(PRESET/FINE/NORMAL)。

2 要取消某個節目位置的遮沒時，請在錄放影機上選擇該節目位置，然後按清除鈕(CLEAR)。

3 按預調/微調/正常鈕(PRESET/FINE/NORMAL)兩次。

如何在遙控器上選擇節目位置(頻道)



選擇頻道	按鈕
1–9	1 — 9 各頻道
10	-/-- → 1 → 0
20	-/-- → 2 → 0
11–99 例如32	-/-- → 3 → 2

如果在第一、第二和第三次按鈕之間超過 5 秒鐘以上沒有操作，則頻道將不能正常改變。

選擇外部 AV 信號源：

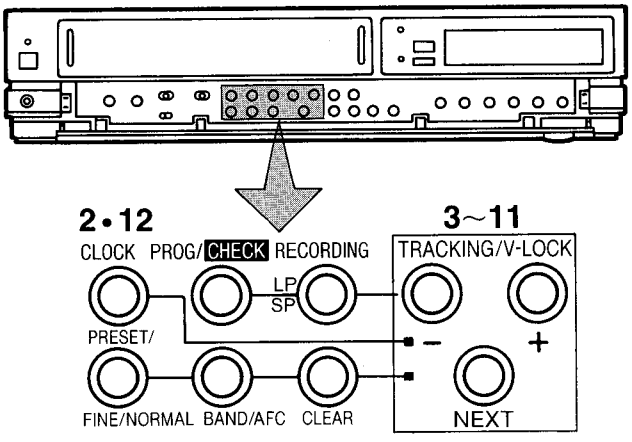
按輸入信號選擇器，選擇"A1"節目位置。

要選擇經過音頻輸入插孔和影像輸入插孔輸入的信號時，請選擇"A1"節目位置。

中文

將時鐘設定至現在時刻

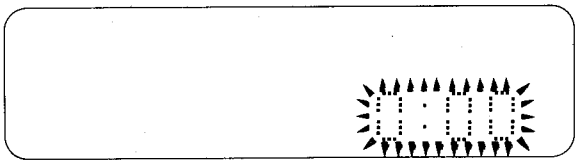
內裝的時鐘採用24小時制。



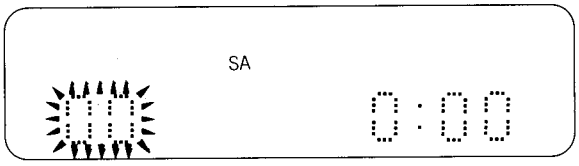
例如：將時鐘設至1999年10月10日，9點10分，星期日

- 連接錄放影機至電源插座。
- 按錄放影機通／斷開關將其打開。

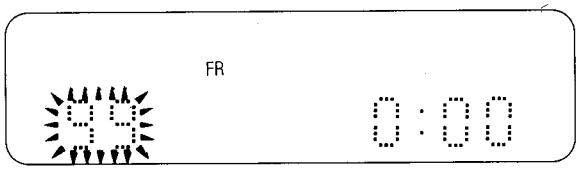
1 錄放影機連接至電源插座時或經過一段長時間停電後，時間指示將會閃動。



2 按時鐘鈕（CLOCK），開始日期和時間的設定。

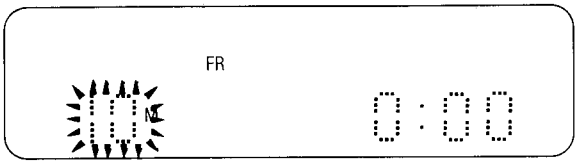


3 按“+”或“–”鈕設定年。



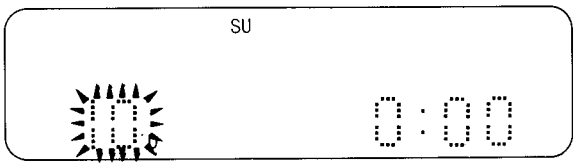
4 按其次鈕（NEXT）。

5 按“+”或“–”鈕設定月。



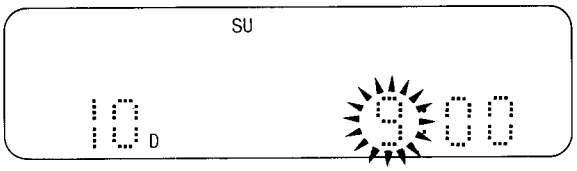
6 按其次鈕（NEXT）。

7 按“+”或“–”鈕設定日期。



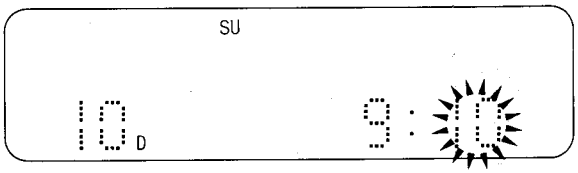
8 按其次鈕（NEXT）。

9 按“+”或“–”鈕設定小時。

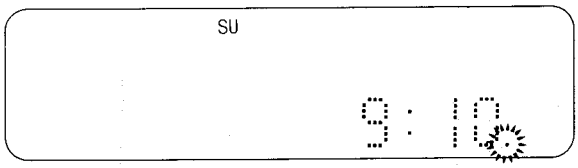


10 按其次鈕（NEXT）。

11 按“+”或“–”鈕設定分鐘。



12 現在時間正好到達9點10分00秒時，按時鐘鈕（CLOCK）。



每按一次其次鈕（NEXT），閃動指示將按以下順序變化。

YEAR（年）→ MONTH（月）→ DATE（日）→ HOUR（時）→ MINUTE（分）

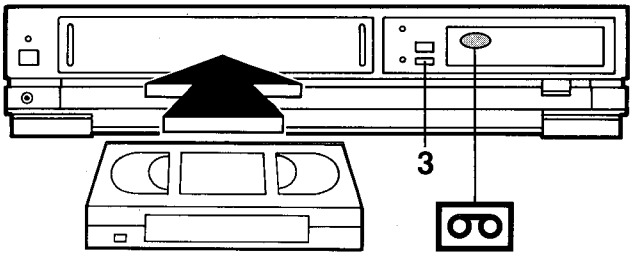
- 一旦發生停電，定時支援系統將維持時鐘運轉和定時器內容大約60分鐘。然而，取決於充電時間和記憶的內容，支援時間可能會長得多。但是，在錄放影機接通電源之後，其支援系統要經過60分鐘以上才能投入工作。
- 須將定時錄影功能設至“Off”，否則錄放影機不能正常操作。在這種情況下，定時錄影指示燈“⏲”將閃動來警告您。
- 設定日期時，相應的星期也同時被設定了。
- 錄放影機的時鐘／定時器和日歷一起被編程至2087年。

  88－99是表明1988－1999年。

  00－87是表明2000－2087年。

錄影帶

插入錄影帶(自動操作)



1 按下圖所示插入錄影帶。錄放影機將被自動接通，磁帶將被自動拉入錄放影機。

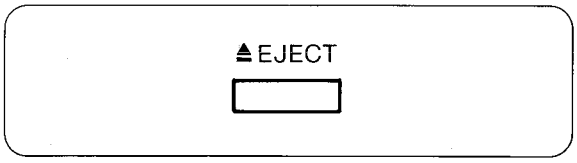
2 錄影帶進入機內後，“ ”標記將出現。

注意：

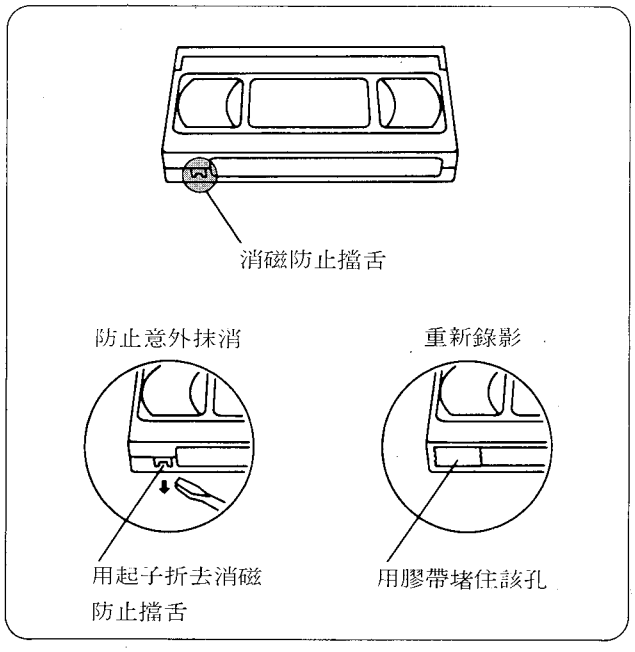
- 當插入了一盒折去了消磁防止擋舌的錄影帶（例如原影帶）時，放映將立刻開始。
- 只能使用VHS錄影帶。

取出錄影帶

3 按取帶鈕(▲)。

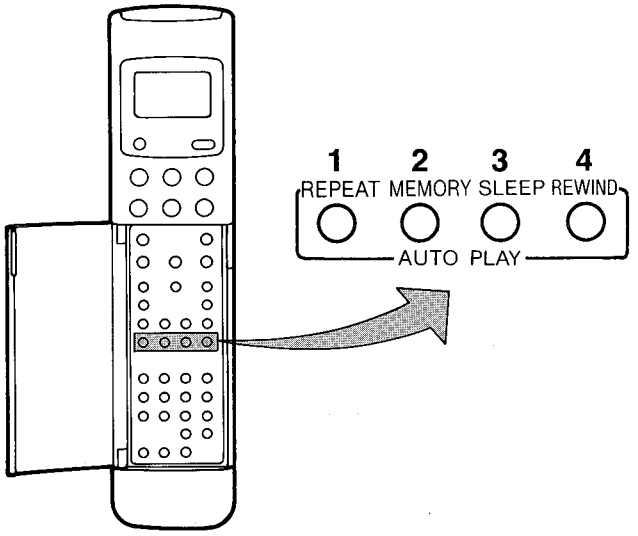


單單按一下取帶鈕，錄放影機將會自動接通電源，排出磁帶，然後再自動關斷電源。



中文

自動操作



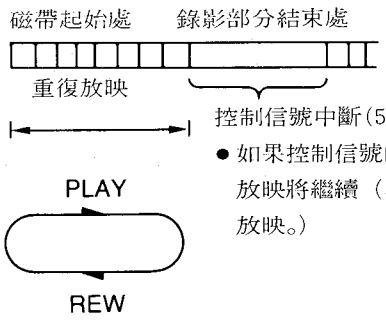
便利的自動放映功能

只需在遙控器上按一鈕，便可啓動下列便利的自動放映操作。

1 重復放映

按重復鈕後，錄放影機的多功能顯示屏上便會出現“R”標記，放映將開始。磁帶到達錄影部分的結束處時，將被自動繞回至起點並重新開始放映。該過程將反復進行。

- 放映將持續到錄放影機檢測出影像錄製部分的結束處（5秒鐘以上沒有控制信號）。
  在該點，磁帶將被繞回至起始處，放映將被重復。



- 如果控制信號的中斷少於5秒鐘，則放映將繼續（在該點不被繞回和重復放映。）

要停止重復放映時，請按停止鈕。

注意：

如果磁帶的某一部分被多次重復放映，則磁帶的那部分可能會被損壞。

2 記憶放映

錄放影機處於停止狀態時按記憶鈕，則磁帶將被快進或倒帶，到達磁帶計時器位置爲“0:00.00”時，將從那位置開始放映。

3 睡眠放映

按睡眠鈕後，放映將開始。磁帶到達錄製內容結束處後，便立即被繞回到起點，錄放影機將自動關閉。

4 倒帶放映

按了倒帶鈕後，磁帶將被繞回。一旦到達磁帶起點，放映就會自動開始。

自動操作

錄放影機自動接通

當插入錄影帶時，錄放影機就自動接通。

自動放映

當插入一盒折斷了消磁防止擋舌的錄影帶時，無須按任何鈕，放映會自動開始。

自動倒帶

在錄影（OTR和定時錄影除外）或放映過程中，當磁帶走到盡頭後，它將被自動倒帶至起始處。

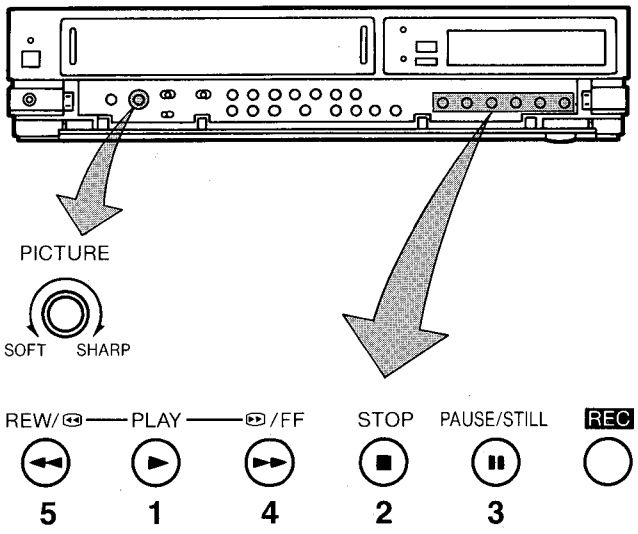
關斷電源取帶

如果錄放影機是關着的，則單單按一下取帶鈕，所插入的錄影帶就會被排出，然後錄放影機又自動關閉。

自動磁頭清洗功能

本錄放影機配備有特殊功能，可從磁頭上自動挪掉磁帶微粒和灰塵，確保連續的一流畫質。磁頭清洗功能工作時，可聽到錄放影機發出某種雜音。然而，這並不意味着故障。

放映

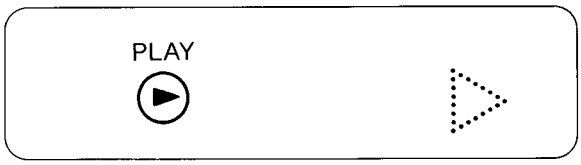


準備

- 確認定時錄影功能被設至“Off”。
- 插入一盒錄製好的錄影帶。
  當錄影帶進入錄放影機內時，按錄放影機通／斷開關將其打開。
- 打開電視機並選擇影像放映頻道。
- 將影像雜波濾波器／編輯選擇器設至“Off”。

1 正常放映

按放映鈕（▶）。



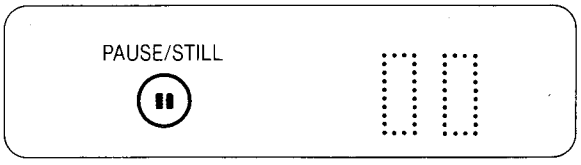
- 使用畫面清晰控制（清晰或柔和輪廓）來隨意控制畫面。

2 結束放映

按停止鈕（■）停止放映。

3 超靜止放映

錄放影機處於放映狀態時，按暫停／靜止鈕（❚❚）可觀看靜止畫面。要繼續進行正常放映時，請再按該鈕一次或按放映鈕（▶）。

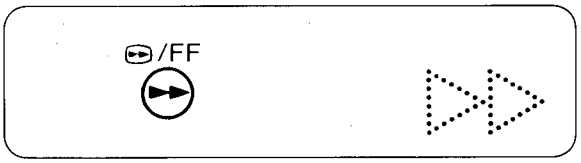


- 如果錄放影機處於靜止放映狀態超過 5 分鐘，則錄放影機將自動切換至停止狀態，以保護磁帶和影像磁頭。

4 快進檢索放映

在錄放影機處於放映狀態時持續按快進▶▶/快進檢索 ▶▶ 鈕時，磁帶將被快速正向放映。

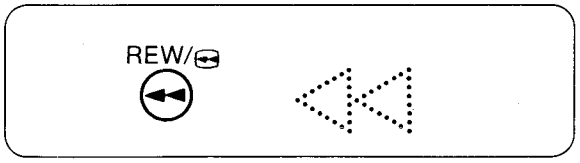
要獲得長時間的快進檢索放映（正常放映中）時，請快速按快進▶▶／快進檢索 ▶▶ 鈕啓動快進檢索放映。要回到正常放映狀態時，請按放映鈕（▶）。



5 倒帶檢索放映

要短時間倒帶檢索放映（正常放映中）時，請持續按住倒帶◀◀／倒帶檢索 ◀◀ 鈕直至想看的部分被放映爲止，磁帶將被快速反向放映。

要獲得長時間的倒帶檢索放映（正常放映中）時，請快速按倒帶◀◀／倒帶檢索 ◀◀ 鈕啓動倒帶檢索放映。要回到正常放映狀態時，請按放映鈕（▶）。



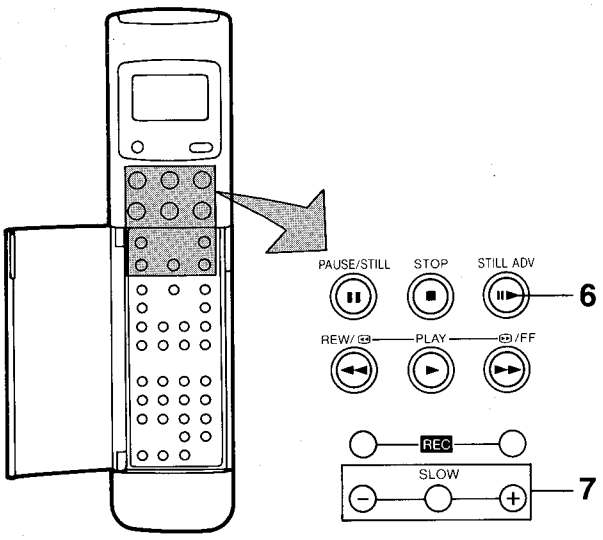
注意：

- 快進檢索或倒帶檢索放映時間超過10分鐘時，錄放影機將自動變至正常放映狀態。

中文

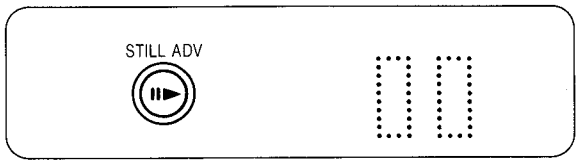
放映(續前)

使用遙控器



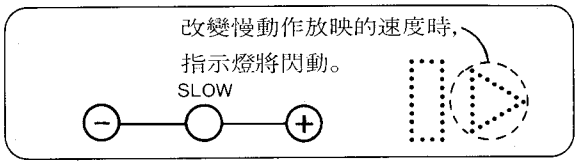
6 超靜止步進放映

錄放影機處於靜止放映狀態中按靜止步進鈕(⏸)。每按該鈕一次，靜止畫面就前進一幀。



7 超級超微慢動作放映

正常放映中，按慢速鈕可啓動慢動作放映功能。使用慢速"+"或"−"鈕可改變慢動作放映的速度。



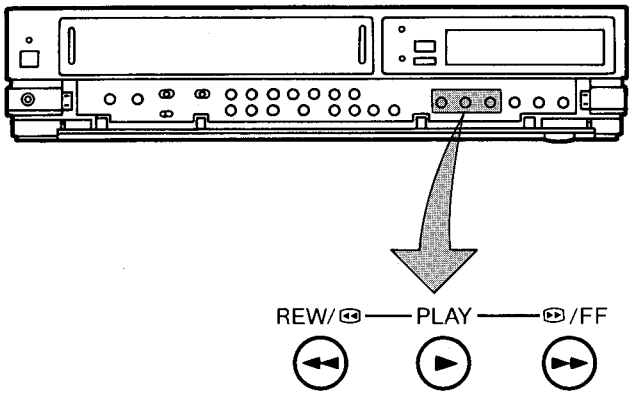
- 按放映鈕(▶)可繼續正常放映。
- 如果慢動作放映操作超過 5 分鐘，則錄放影機將自動切換至停止狀態。
- 在配備有自動垂直同步控制的電視機上以超靜止或超級超微慢動作放映磁帶時，畫面可能會垂直振動。這時，請將電視機的垂直同步控制(自動／手動)選擇器設至"Manual(手動)"位置，然後用垂直同步控制進行調整。

慢動作磁迹調整控制

- 在超靜止、超靜止步進或超級超微慢動作放映中，畫面出現雜波條紋時，請切換至慢動作放映狀態，並用磁迹調整"+"或"−"鈕減少雜波條紋。
- 也許不能完全消除雜波條紋。

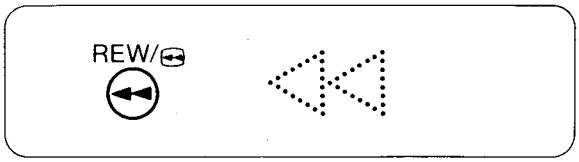
- 只有正常放映時聲音才能播出。
- 快進檢索或倒帶檢索狀態中，畫面垂直滾動時，請調整電視機的垂直同步控制。
- 剛進入快進檢索或倒帶檢索放映狀態時，畫面可能會變形。同樣，剛取消這些狀態時，畫面也可能會暫時變形，但這並不意味着故障。
- 快進檢索和倒帶檢索放映狀態中，電視機畫面中可能出現水平條紋狀的雜波，但這並不意味着故障。
- 快進檢索、倒帶檢索放映狀態中，畫面頂部可能會變形，但這並不意味着故障。
- 僅在"LP"狀態時：
  1. 在正常放映以外的放映狀態中，畫面中可能會有雜波條紋，彩色可能不穩定，或者會出現黑白畫面。
  2. 對其它錄放影機上錄製的磁帶進行放映時，也許需要調整磁迹控制。有時畫質將仍不理想。這是由於系統的限制。
  3. 放映錄製了 SECAM(OST)信號的磁帶時，彩色可能不穩定，或出現黑白畫面。

放映(續前)

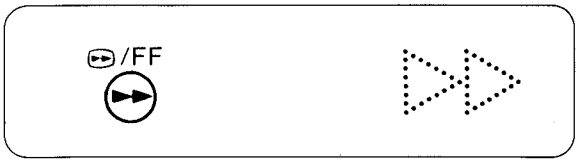


倒帶和快進

按倒帶◀◀ / 倒帶檢索 ⏪ 鈕進行倒帶。

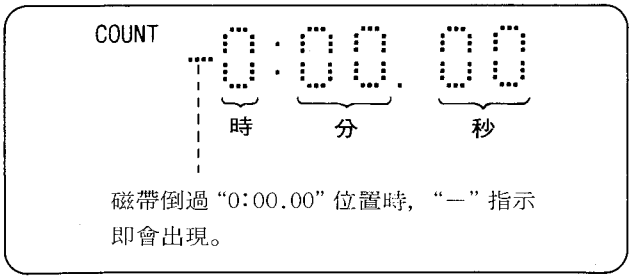


按快進▶▶ / 快進檢索 ⏩ 鈕快速正向導帶。



經過時間計時器

可顯示經過的錄影或放映時間。



磁帶倒過"0:00.00"位置時，"—"指示即會出現。

- 在快進、倒帶或任何放映操作中，如果磁帶計時器的數字未前進，則表明磁帶的該部分未錄下任何內容。
- 磁帶插入時，磁帶計時器將自動回復爲"0:00.00"。
- 對NTSC的錄影進行放映時，磁帶計時器將不能正確地工作。

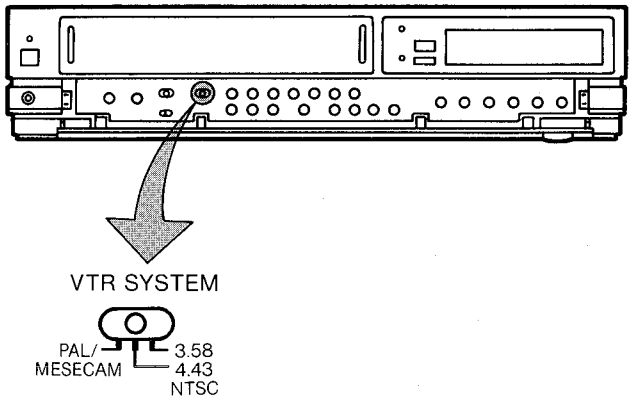
NTSC放映

通過NTSC系統的電視機在本錄放影機上放映以NTSC系統錄製的磁帶時，請將錄放影機系統選擇器設至"4.43"或"3.58"。

使用NTSC4.43系統電視機時：將錄放影機系統選擇器設至"4.43"。

使用NTSC3.58系統電視機時：將錄放影機系統選擇器設至"3.58"。

- 通過PAL系統的電視機在本錄放影機上放映以PAL系統錄製的磁帶時，請將錄放影機系統選擇器設至"PAL / MESECAM"。
- 以PAL系統錄製的磁帶不能在本錄放影機上通過NTSC系統電視機放映。



通過PAL系統電視機放映以NTSC系統錄製的磁帶

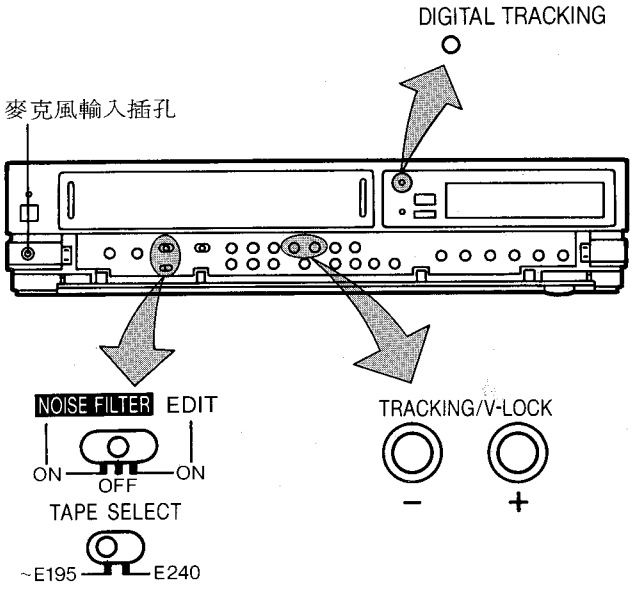
以NTSC系統錄製的磁帶可在本錄放影機上通過PAL系統電視機放映。

請將錄放影機系統選擇器設至"PAL/MESECAM"位置。

- 取決於所用的電視機，畫面也許會垂直收縮，屏幕的頂部和底部可能會出現黑色條紋。但這並不意味着故障。
- 放映的畫面也許會上下滾動。如果電視機配備有垂直同步控制，則有可能通過調整該控制來停止畫面運動。然而，如果電視機未配備垂直同步控制，則不能消除該現象。
- 放映以NTSC系統、SLP方式錄製的磁帶時，多功能顯示屏上將出現"LP"指示。
- 特殊放映功能（正常放映除外）不能用於NTSC放映。但這並不意味着故障。
- 取決於所用的電視機，畫面也許是黑白的，但這並不意味着故障。

中文

放映(續前)



數碼磁迹調整

當插入一盒磁帶並打開錄放影機，開始放映時，數碼磁迹調整功能將被自動啓動，數碼磁迹指示燈會閃動幾秒鐘，並且磁迹被自動調整（調整之後，數碼磁迹調整指示燈將仍亮着）。

- 當數碼磁迹調整指示燈亮起，磁帶速度（SP/LP）改變時，數碼磁迹調整功能被自動啓動。然而，在除了放映、插入編輯和音頻複製以外的操作中，該功能將不工作。
- 在放映過程中，無論何時，只要放映從未錄影部分轉到已錄影部分，則數碼磁迹調整功能均會被啓動，只要某個未錄影部分的長度超過 4 秒鐘。

- 畫面由於雜波條紋而變形時，請按磁迹調整(＋)或(－)鈕以選擇手動磁迹調整，並用這兩個鈕進行調整。數碼磁迹調整指示燈會熄滅。
  要變回到數碼磁迹調整時，請同時按磁迹調整(＋)和(－)鈕。

垂直鎖定調整

在靜止放映中，如果發生垂直跳動，則可用垂直鎖定"＋"或"－"鈕進行調整。

- 交流電源線被拔掉或發生停電後，請重新進行垂直鎖定調整。

影像雜波濾波器/編輯選擇器

EDIT：用於複製等編輯操作。
OFF：用於錄放影機的一般操作。
NOISE FILTER ON：用於放映由於多次複製等原因引起的畫質較差的磁帶。

- 影像雜波濾波器／編輯選擇器被設至"EDIT ON"時，不能用影像清晰度控制來調整畫面清晰度。

磁帶選擇開關

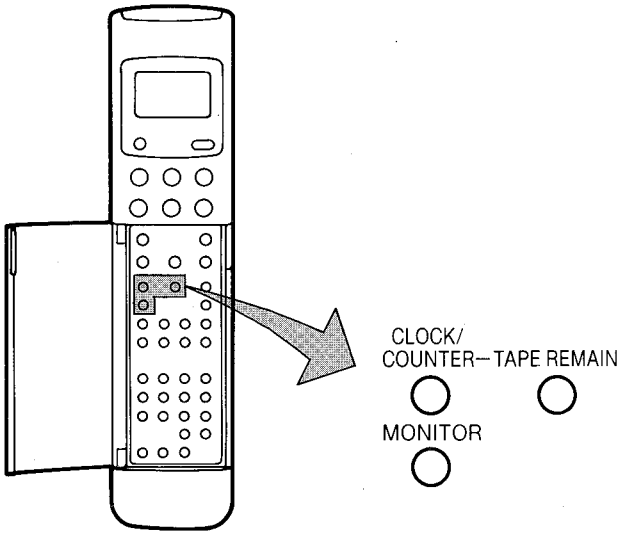
使用NV-E240錄影帶時，要獲得正確的剩餘磁帶時間指示，則必須將此開關設至"E240"位置。
使用NV-E30、60、90、120、180或195錄影帶時，請將此開關設至"～E195"位置。如果使用了上述以外的磁帶時，剩餘磁帶時間指示將不精確。

麥克風混聲功能

將麥克風連接至本錄放影機的麥克風輸入插孔，則可將其作爲卡拉OK錄放影機使用。
請使用麥克風音量控制來調整音量至合適的程度。

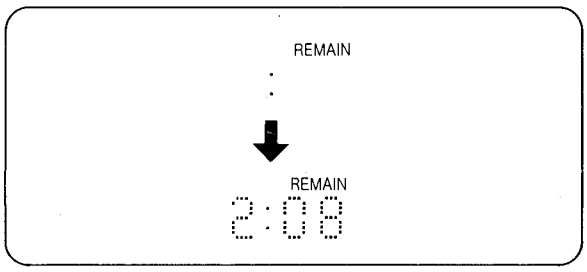
- 如果音量太高，則揚聲器的聲音可能會畸變。
- 如果發生聲學反饋(嘯叫)，則請將麥克風音量降低，或使麥克風遠離揚聲器，或將電視機音量降低。(如果聲音由立體聲放大器輸出，則請降低立體聲放大器的音量。)

放映(續前)



剩餘磁帶時間指示

在放映或錄影狀態中，按了遙控器上的磁帶剩餘鈕後，將會以小時和分鐘顯示大約的剩餘磁帶時間。



- 即使磁帶被排出，剩餘磁帶時間指示將仍被顯示。然而，再插入磁帶後，該指示將被取消。
- 在本錄放影機上使用 VHS-C 磁帶時，剩餘磁帶時間指示將不正確或根本不出現。
- 要回到磁帶計時器指示方式時，請再按一次磁帶剩餘鈕。

時鐘/計時器選擇器

在錄放影機通/斷開關設至"On"時按該鈕，可使多功能顯示屏上的時鐘／計時器的顯示狀態從"Clock"(時鐘)變至"Counter"(計時器)或者相反。

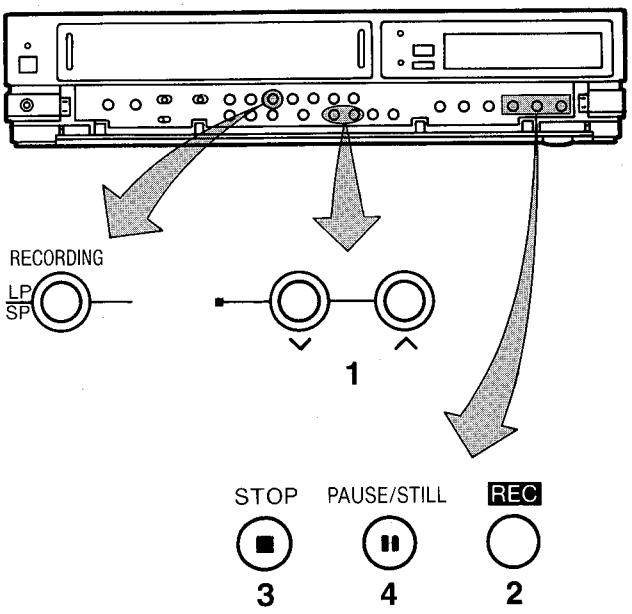
- 但在下列情況下，即使選擇器被設至"Counter"(計時器)，顯示屏也會自食變換至"Clock"(時鐘)顯示：當您將錄放影機通／斷開關設至"Off"時；設定時鐘至現在時刻時，設定定時錄影時，檢查定時錄影節目時或操作OTR時。
- 當時鐘／計時器顯示時間時，不能使計時器復位。

監視功能

在放映或靜止放映時持續按監視鈕，則所選的節目位置(頻道)的電視畫面或通過音頻／影像輸入插孔的輸入信號將被顯示。釋放該鈕後，將回到磁帶的放映畫面。

中文

收錄電視節目



準備

- 確認定時錄影功能被設至 "Off"。
- 插入一盒消磁防止擋舌完整的磁帶。
  當磁帶進入錄放影機內時，按錄放影機通／斷開關將其打開。
- 將磁帶速度選擇器設至 "SP" 或 "LP"。
- 確認未連接麥克風至錄放影機。

磁帶速度選擇器(SP/LP)

錄影時，可選擇 2 種磁帶速度。放映時錄放影機將自動選擇正確的速度。

- SP方式：獲得較高的畫質。
- LP方式：獲得較長的錄影時間。

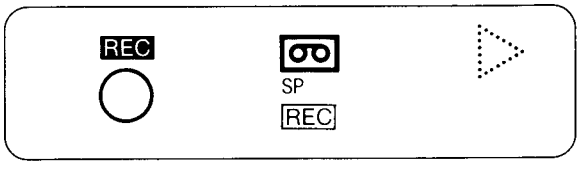
> 建議不要在錄影的中途將 SP 方式變爲 LP 方式或者相反。即便錄放影機在暫停狀態時進行這種改變，放映時也會在速度變化處產生畫面變形。

注意：

LP 方式的畫質不如 SP 方式的畫質。

1 在錄放影機上選擇要錄影的節目位置(頻道)。爲了確認接收效果，請打開電視機並選擇影像放映頻道。

2 按錄影鈕(●)。



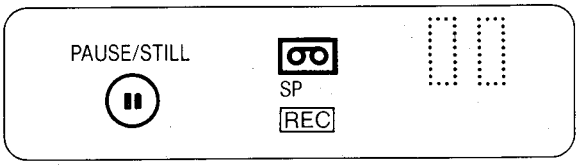
- 插入折掉消磁防止擋舌的磁帶時，" ⊙ " 指示將閃動。
- 錄影過程中，不能改變錄放影機的節目位置(頻道)。
- 使用遙控器開始錄影時，必須同時按遙控器上的兩個錄影鈕。
- 錄影（包括 OTR 和定時錄影）開始後，實際錄影開始之前磁帶將被短暫放映，以獲得先前錄影和新錄影之間的平滑轉換。因此，新錄影將在大約1.5秒後開始。

結束錄影

3 按停止鈕(■)。

如果您想避免錄到不想要的內容

4 按暫停／靜止鈕(❚❚)便可暫時停止磁帶運行。



- 再按一次暫停／靜止鈕(❚❚)便可繼續錄影。
- 如果您讓錄放影機處於暫停狀態超過 5 分鐘，則錄放影機將自動切換至停止狀態以保護磁帶和影像磁頭。

在觀看另一節目的同時收錄電視節目

1 錄影(按步驟 1 和 2 操作)。

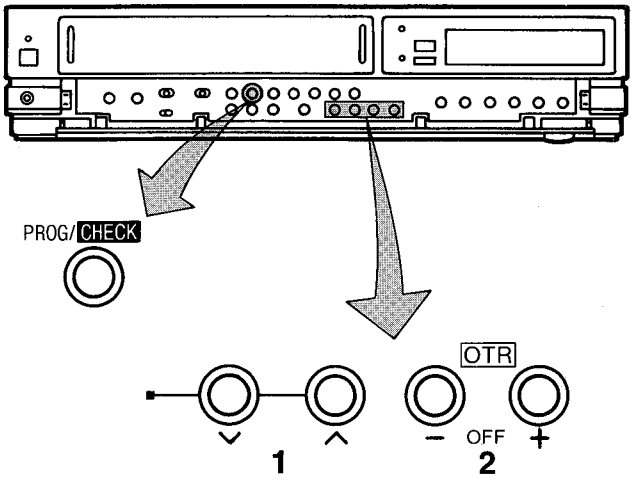
2 在電視機上選擇要觀看的節目位置(頻道)。

注意：

如果連接麥克風至錄放影機，則麥克風的聲音將被錄製。

超級OTR功能(單觸定時錄影)

這個便利的功能可讓您設定錄放影機立刻收錄電視節目，其開始和結束時間可精確設定至分鐘。錄影結束後，錄放影機會自動關掉。



準備

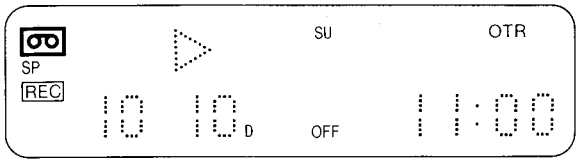
- 插入消磁防止搖舌完整的磁帶。
  磁帶進入錄放影機內時，按錄放影機通／斷開關將其打開。
- 確認時鐘所示時間爲現在正確的時間。
- 將磁帶速度選擇器設至“SP”、或“LP”。
- 確認未連接麥克風至錄放影機。

立刻開始的OTR功能

(例如：設定11:00電視節目的OTR錄影。)

1 選擇要收錄的節目位置(頻道)。

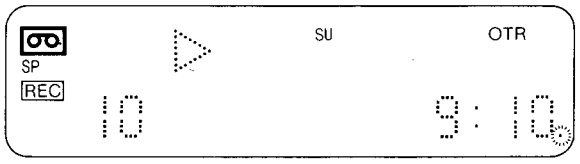
2 按OTR Off (+) 或 (−) 鈕，將OTR結束時間設至11:00。



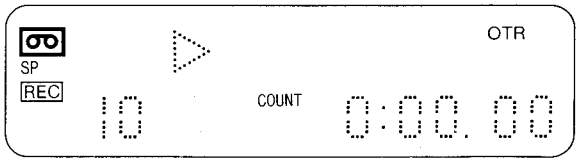
- “OTR”指示燈會顯示出來。

- 如果插入的磁帶消磁防止搖舌不完整時，“ ”指示會閃動。
- 當快速和反復地按OTR Off (+) 或 (−) 鈕時，相應的時間指示是以1分鐘爲單位改變的。持續按住時，則以10分鐘爲單位改變。
- OTR完成後，錄放影機會自動關掉。按錄放影機通／斷開關便可再開啓錄放影機。

按一次節目／檢查 (PROG/CHECK) 鈕，將顯示現在時間。



在OTR錄影時，如果按了遙控器上的時鐘/計時器選擇器 (CLOCK/COUNTER) 鈕，則顯示屏將變到計時器狀態。

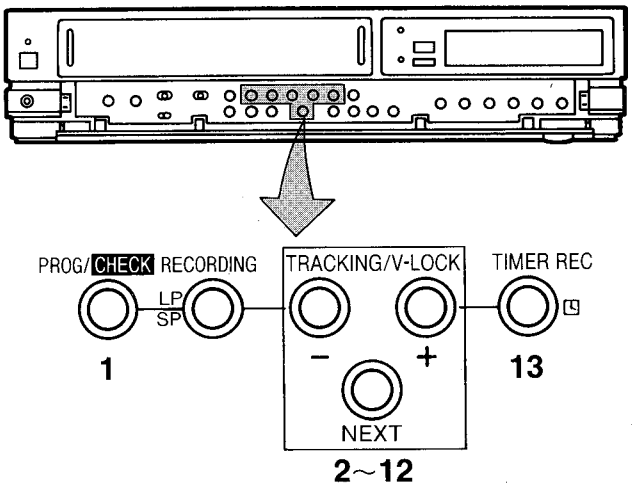


- OTR中，當磁帶到達盡頭後，錄放影機會自動關掉。
- 確認OTR功能（單觸定時錄影）沒有和定時錄影重叠。OTR一定比定時錄影優先。
- 錄影中，可改變OTR結束時間。
- 按錄放影機通／斷開關將其關掉，便可中斷OTR。

中文

定時錄影

在錄放影機上或經過遙控器都可進行定時錄影的設定。
可提前一個月設定多達 8 個節目的定時錄影。
使用數碼錄影筆（選購附件）時，可通過條形碼進行定時錄影的簡單設定。



準備

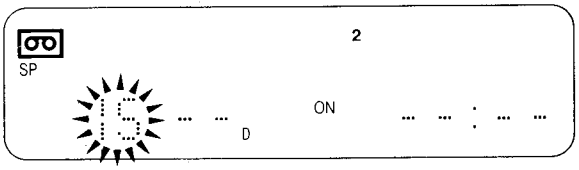
- 確認時鐘所示時間爲現在正確的時間。
- 確認定時錄影功能設至“Off”。
- 插入消磁防止搖舌完整的磁帶。
  磁帶進入錄放影機內時，按錄放影機通／斷開關將其打開。
- 確認未連接麥克風至錄放影機。

例如：

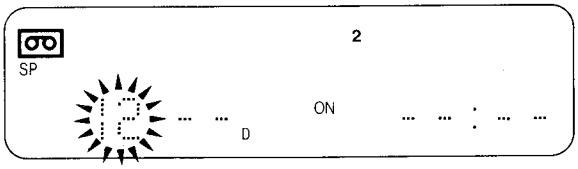
設定10月27日，星期三，10:30至11:45電視節目的定時錄影，節目位置（頻道）12，定時節目號碼 2 。
(現在日期=1999.10.10)

1 按節目／檢查（PROG/CHECK）鈕以選擇下一個未被占用的定時節目號碼。

- 按磁帶速度選擇器鈕，直到多功能顯示屏上所希望的磁帶速度（“SP”或“LP”）的指示燈亮。

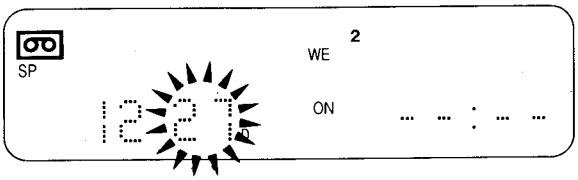


2 按（+）或（−）鈕，選出該電視節目的位置（頻道）。



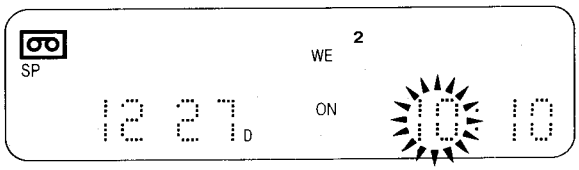
3 按其次鈕（Next）。

4 按（+）或（−）鈕以調整日期。



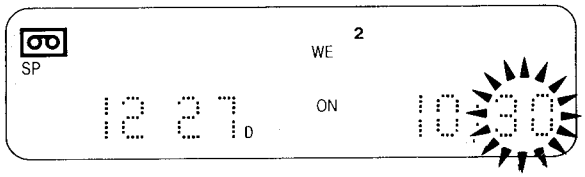
5 按其次鈕（Next）。

6 按（+）或（−）鈕以選擇電視節目開始的時。



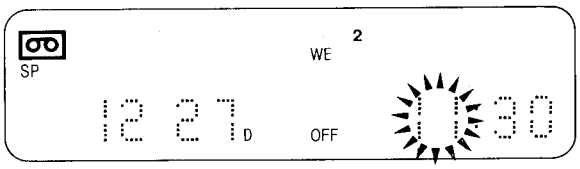
7 按其次鈕（Next）。

8 按（+）或（−）鈕以選擇電視節目開始的分。



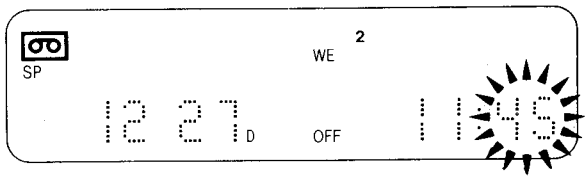
9 按其次鈕（Next）。

10 按（+）或（−）鈕以選擇電視節目結束的時。

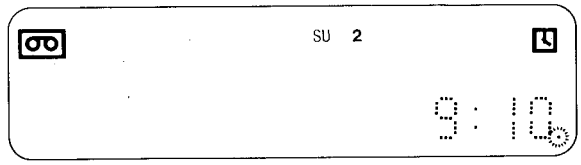


11 按其次鈕（Next）。

12 按（+）或（−）鈕以選擇電視節目結束的分。



13 按定時錄影鈕。



- 磁帶速度（SP/LP）可在1至12中的任何一個步驟中被選擇。

定時錄影(續前)

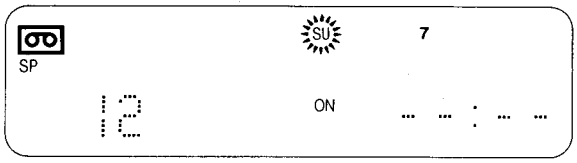
用於每週錄影

例如：

設定每週星期日10:30至11:45某一電視節目的定時錄影，定時節目號碼 7 。

定時節目號碼 1 ～ 8 均可以用來設定每週錄影。
進行第64頁上步驟 1 至 3 所示的操作。

4 反復按（－）鈕直至“SU”指示燈（＝星期日）亮。



進行步驟 5 至13所示的操作。

用於每天錄影

對於每天錄影，您可選擇三種方式。星期一至星期五（1）；星期一至星期六（2）；星期日至星期六（3）。

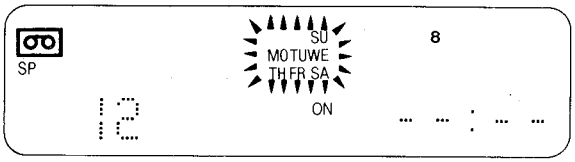
1	2	3 SU
MOTUWE	MOTUWE	MOTUWE
TH FR	TH FR SA	TH FR SA

例如：

設定每天10:30至11:45電視節目的定時錄影，定時節目號碼 8 。

定時節目號碼 1 ～ 8 均可以用來設定每天錄影。
進第64頁上行步驟 1 至 3 所示的操作。

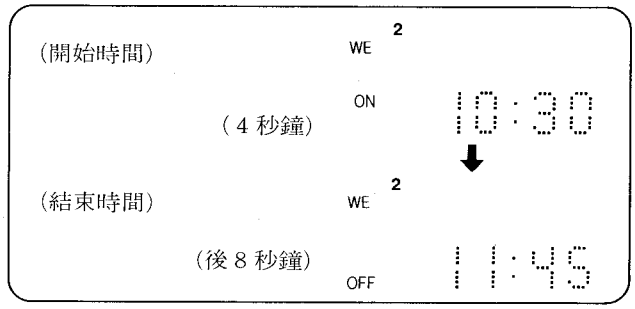
4 反復按（－）鈕直至所希望的每天錄影類型（1 、 2 、 3 ）被顯示。



進行步驟 5 至13所示的操作。

確認定時錄影設定

確認錄放影機已經開啓。
確認定時錄影功能設在“On”。
反復按節目 / 檢查（PROG/CHECK）鈕以選擇出要檢查的節目號碼。
定時錄影的預調頻道以及開始和結束時間會顯示12秒左右。



取消定時錄影

確認：
錄放影機已經開啓。
定時錄影功能設至“Off”。

1 反復按節目 / 檢查（PROG/CHECK）鈕，直到您要取消的節目號碼顯示出來爲止。

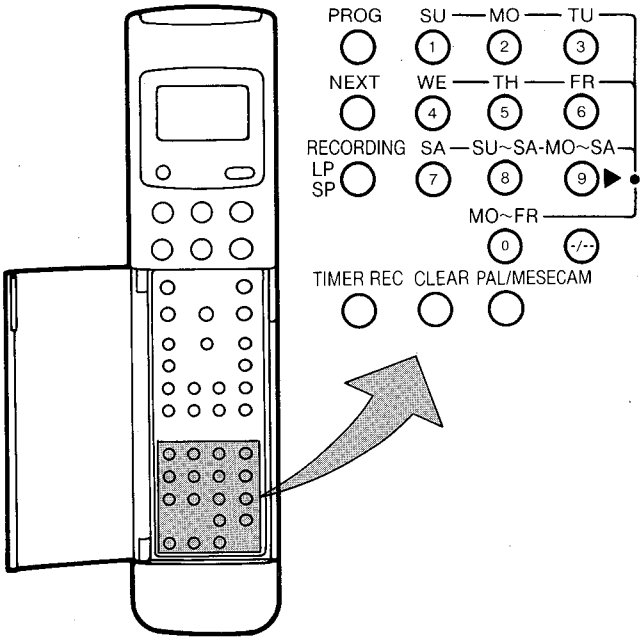
2 同時按（＋）和（－）鈕 3 秒鐘以上。

- 錄影中，錄放影機上的節目位置（頻道）無法變更。
- 設定定時錄影後，想看電視節目時，可在電視機上選擇所要的頻道。
- 錄影中，要取消定時錄影時，請將定時錄影功能設至“Off”。
- OTR進行中不可以確認定時錄影設定。
- 定時錄影進行前，要開啓錄放影機進行放映或錄影時，請將定時錄影功能設至“Off”。
- 定時錄影功能設至“On”，却未放入磁帶或磁帶的消磁防止搭舌被折斷時，“ ” 和“ ”指示將閃動。未設定任何定時錄影時，“ ”指示也會閃動。
- 如果定時錄影未進行完畢（磁帶不足或被您中斷），則定時錄影設定數據將在兩天後的清晨 4 點鐘被取消。然而，如果當時啓動了定時錄影功能或進行了OTR錄影，則定時錄影設定數據將在第二天的清晨 4 點鐘被取消。

中文

定時錄影(續前)

使用遙控器的定時錄影



如何選擇節目位置(頻道)

要選擇 1 至 9 之間的數字時，請按對應那一數字的數碼鈕。
要選擇 2 位數字時，首先請按“-/--”鈕，然後再連續按兩個相關的數碼鈕，兩次按鈕之間不得超過 5 秒鐘。

如何設定定時錄影的日期和開始 & 結束時間

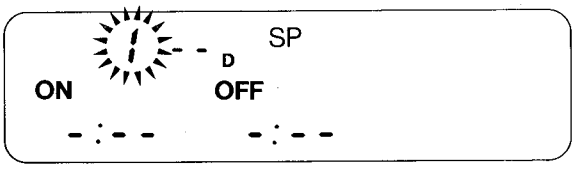
要選擇 1 至 9 之間的數字時，請首先按“0”鈕，然後再按對應那一數字的數碼鈕。
要選擇 2 位數字時，請連續按兩個相關的數碼鈕。

2 → 0 → 2
15 → 1 → 5
30 → 3 → 0

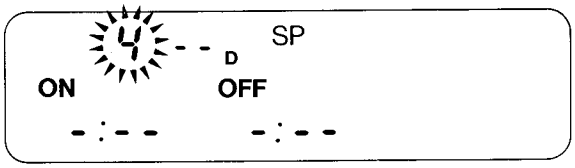
- 第一個鈕按了之後，須在 5 秒鐘之內按第二個鈕。
- 按其次鈕之前，請在顯示屏上確認您輸入的數字被以適當的十進制數指示出。
- 輸入分鐘數後，在按其次鈕之前，請確認分鐘被以 2 位數指示出。
- 按其次鈕時如果數字僅被以10位數指示，則將作爲設定出錯對待而不會被接收。
- 按了單一數字後，如果未在 5 秒鐘之內輸入其它數字，則該數字將被移動至個位位置。
- 如果首先按了下列鈕，則將被立即輸入至個位位置。
  日期：“4”～“8”鈕
  小時：“3”～“9”鈕
  分鐘：“6”～“9”鈕

例如：設定當月第三天7:02至7:30電視節目的定時錄影，頻道位置 4 。

1 按節目鈕。
- 按磁帶速度選擇器鈕，直到多功能顯示屏上所希望的磁帶速度（“SP”或“LP”）的指示燈亮。

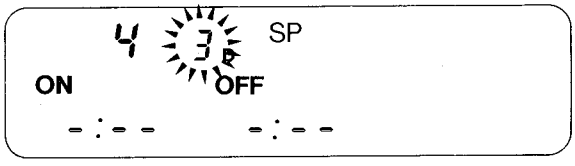


2 按數碼鈕，選出該電視節目的位置（頻道）。



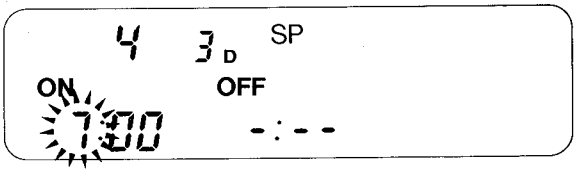
3 按其次鈕（Next）。

4 按數碼鈕以調整日期。



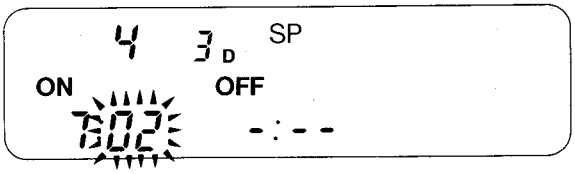
5 按其次鈕（Next）。

6 按數碼鈕以選擇電視節目開始的時。



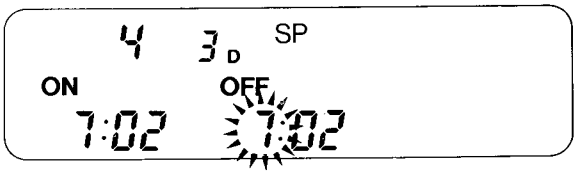
7 按其次鈕（Next）。

8 按數碼鈕以選擇電視節目開始的分。



9 按其次鈕（Next）。

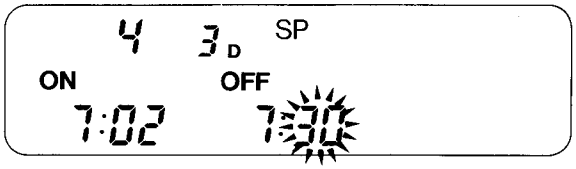
10 按數碼鈕以選擇電視節目結束的分。



11 按傳送鈕。

定時錄影(續前)

12 按數碼鈕以選擇電視節目結束的分。



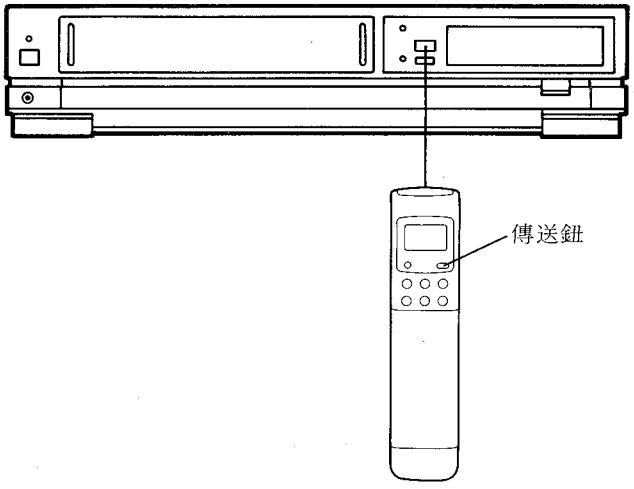
13 按傳送鈕。

- 磁帶速度（SP/LP）可在 1 至12中的任何一個步驟中被選擇。
- 未選擇希望的磁帶速度(顯示屏上無SP或LP指示)而直接將設定的數據傳送給錄放影機時，錄放影機的多功能顯示屏當時顯示的磁帶速度指示將被設定至定時錄影中。
- 要立即設定下一個定時錄影時，請在傳送第一個定時錄影設定數據至錄放影機之後，立即按節目鈕兩次。然後設定第二個定時錄影。
- 如果遙控器25秒鐘以上沒有操作，則它將自動切換至節約電力的準備狀態，顯示屏上的指示將消失。這時，未被傳送至錄放影機的數據將被取消。

傳送設定數據

持續按傳送鈕，確認顯示在錄放影機的多功能顯示屏上的即是所要的設定數據。

鬆開該鈕後，數據會繼續顯示12秒左右。



- 錄放影機開啓但未進行錄影或放映時，即可進行傳送。錄放影機處於定時錄影準備狀態（ 指示燈亮着）時也可進行傳送。
- 設定會在次一個較低的未被佔據的定時節目號碼（8～1）進行。
- 按下傳送鈕時，錄放影機會自動切換成錄影準備狀態且自動關掉。
- 定時錄影開始前要操作錄放影機時，按定時錄影鈕使定時錄影準備狀態暫停。使用錄放影機後，一定要記得再按一次定時錄影鈕，否則定時錄影無法進行。

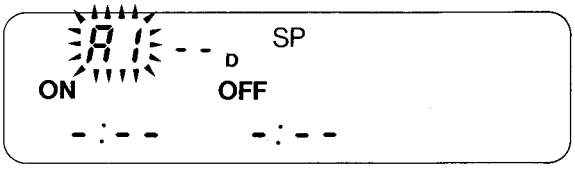
對外部信號源的定時錄影

例如：

設定當月第三天7:02至7:30連接至本錄放影機音頻／影像輸入插孔的外部 AV 設備的定時錄影。

1 按節目鈕。

2 按輸入信號選擇器，使得“A1”指示燈亮。



進行第58頁和59頁上步驟 3 至13所示的操作。

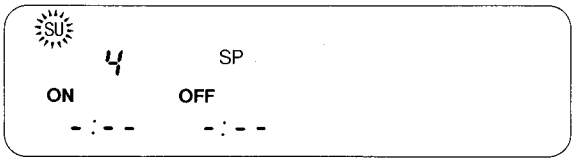
用於每週錄影

例如：

設定每週星期日7:02至7:30某一電視節目的定時錄影。

進行第58頁上步驟 1 至 3 所示的操作。

4 按“9”鈕，然後在 5 秒鐘內按“1”鈕。“SU”指示燈（＝星期日）會亮。



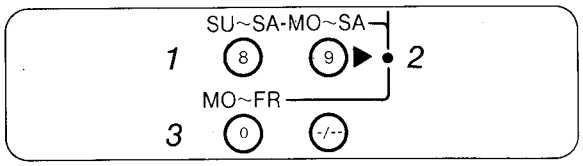
進行步驟 5 至13所示的操作。

中文

定時錄影(續前)

用於每天錄影

對於每天錄影，您可選擇三種方式。星期日至星期六(1)；星期一至星期六(2)；星期一至星期五(3)。

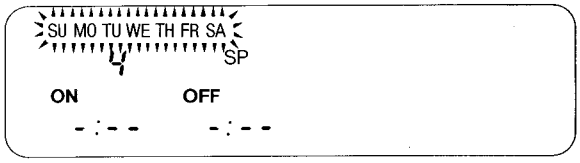


例如：

設定每天7:02至7:30電視節目的定時錄影。

進行第58頁上步驟 1 至 3 所示的操作。

4 按“9”鈕，然後在 5 秒鐘內，根據希望的每天錄影類型（1，2，3）按“8”、“9”或“0”鈕。



進行步驟 5 至13所示的操作。

如何設定每週和每天錄影

首先按“9”鈕，然後根據希望的每週或每天錄影類型按希望的數碼鈕。

每週錄影

星期日	MO~SA 9 ▶	SU 1
星期一	MO~SA 9 ▶	MO 2
星期二	MO~SA 9 ▶	TU 3
星期三	MO~SA 9 ▶	WE 4
星期四	MO~SA 9 ▶	TH 5
星期五	MO~SA 9 ▶	FR 6
星期六	MO~SA 9 ▶	SA 7

每天錄影

星期日至星期六	MO~SA 9 ▶	SU~SA 8
星期一至星期六	MO~SA 9 ▶	MO~SA 9
星期一至星期五	MO~SA 9 ▶	MO~FR 0

第一個鈕按了之後，必須在 5 秒鐘之內按第二個鈕。

確認定時錄影設定

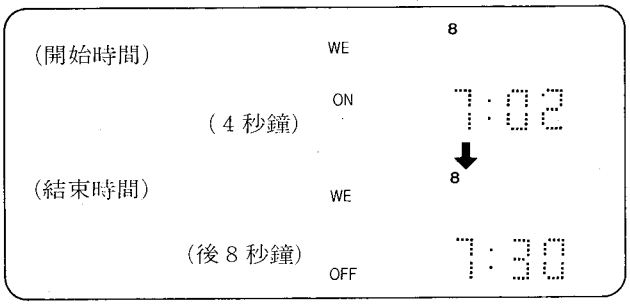
確認錄放影機已經開啓。

確認定時錄影功能設在“On”。

確認遙控器的顯示屏上無數字出現。

反復按傳送鈕以選擇出要檢查的節目號碼。

定時錄影的預調頻道以及開始和結束時間會顯示12秒鐘左右。



取消定時錄影

確認：

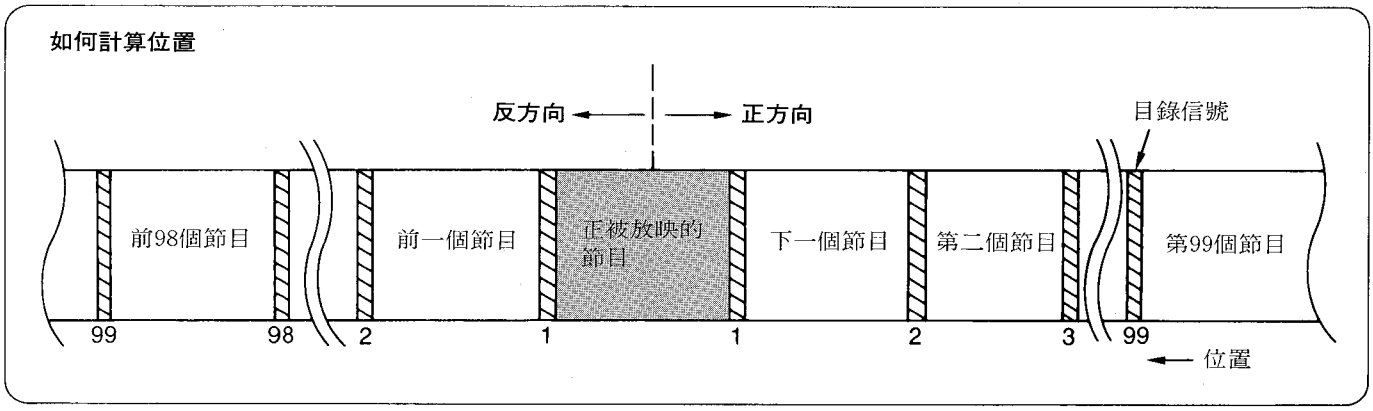
錄放影機已經開啓。

定時錄影功能設至“Off”。

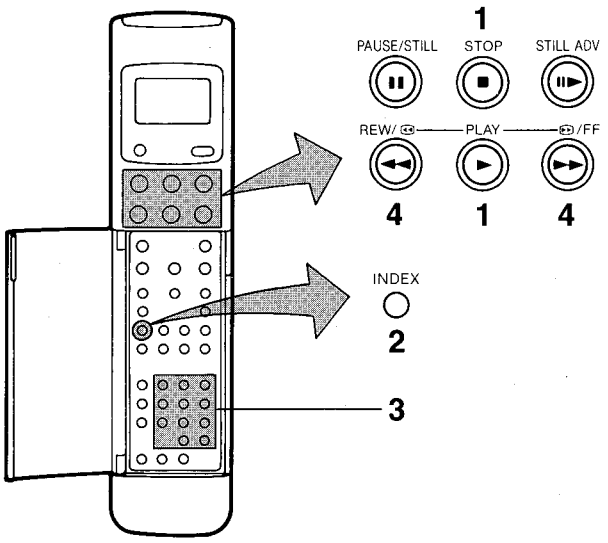
1 反復按傳送鈕，直到您要取消的節目號碼顯示出來爲止。

2 按清除鈕。

VHS目錄檢索系統



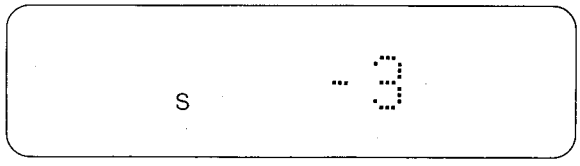
本目錄檢索功能可在快進或倒帶中，朝前或朝後，最高跳躍99個位置（錄有目錄信號處），直接到達所要節目的開頭部分。



1 按放映鈕（▶）或停止鈕（■）。

2 按目錄鈕。“S”指示燈將亮起。

3 按數碼鈕，輸入您想跳越的節目號碼。



- 如果您按錯了鈕，則請按目錄鈕兩次，再輸入正確的號碼。

4 按倒帶◀◀/倒帶檢索 ⏪ 鈕或快進▶▶/快進檢索 ⏩ 鈕，啓動VHS目錄檢索功能。（錄放影機將轉換至倒帶或快進狀態）。

- 每跳過一個目錄信號位置，位置指示的數目即會減一。
- 到達預調的位置後，磁帶計時器指示便會出現在位置指示處，正常放映將開始。
- 途中要停止目錄檢索功能時，按放映鈕或停止鈕。

目錄信號的錄製

錄製目錄信號時，“WRITE”指示會在多功能顯示屏中亮數秒鐘。

在下列情況下，目錄信號將被自動錄製：

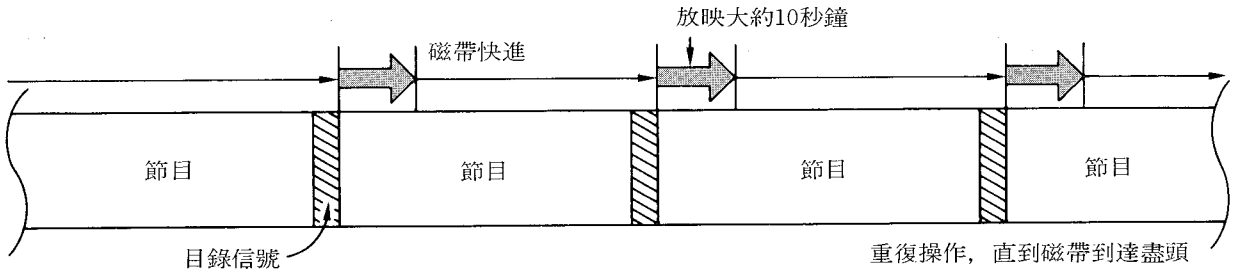
- 在按錄影鈕開始錄影的磁帶位置處。
- 在開始定時錄影的磁帶位置處。
- 在開始OTR錄影的磁帶位置處。
- 在錄影中按了錄影鈕的位置處。

- 當從靜止放映狀態啓動VHS目錄檢索功能時，將會在到達所選節目時開始放映。
- 如果目錄檢索功能從非常靠近次一個節目開始處（錄有位置信號之處）開始，或從磁帶開頭位置開始時，則第一個位置可能無法算到。
- 如果磁帶上有未錄影的部分，或者在磁帶相同的位置錄製了相同的內容，則VHS目錄檢索功能可能不會正確地工作。
- 僅當目錄信號間隔至少有3分鐘（SP方式）和5分鐘（LP方式）時，VHS目錄檢索功能才能正確地對位置計數。

中文

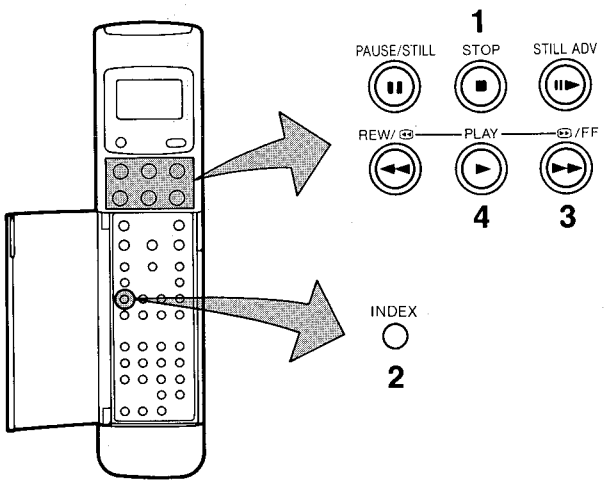
放頭檢索功能

放頭檢索如何進行



本放頭檢索功能能在整個屏幕上連續放映磁帶上每個節目(錄製有目錄信號)的前10秒鐘部分。能方便，迅速地檢查磁帶上的節目，或找出您錄製的電視連續劇的某一集。

放頭檢索操作



1 插入錄影帶。
(使錄放影機處於停止狀態。)

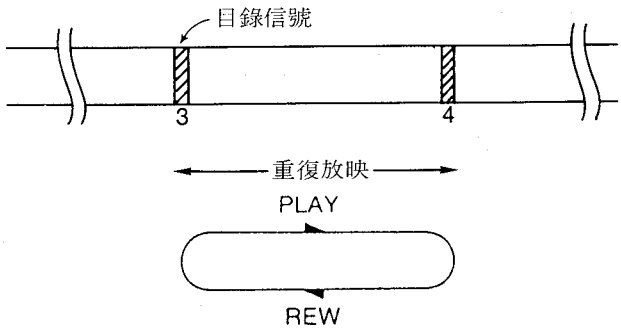
2 按目錄鈕，使得“S”標記出現。

3 按快進 ▶▶/快進檢索 ⏩ 鈕。
(放頭檢索開始。)

4 到達所要的畫面時，按放映鈕 (▶)。

- 第一個節目如果太靠近磁帶的開始位置，則可能無法啓動放頭檢索功能。
- 如果節目間隔在LP方式時少於5分鐘，或在SP方式時少於3分鐘，則可能啓動不了放頭檢索功能。

目錄重復放映



1 按目錄鈕。

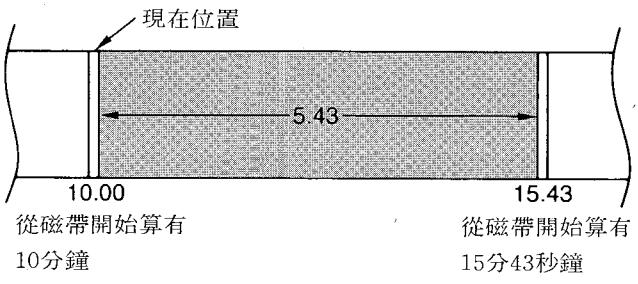
2 按重復鈕，“RS”指示燈會亮，放映開始。
- 當下一目錄信號被找到時，磁帶將繞回。在找到開始放映處的目錄信號時，放映將重新開始。用這種方式，可根據被跳越過的目錄信號的個數對磁帶的某一部分自動進行重復放映。

3 要結束目錄重復放映時，請按停止鈕。

如果在一盒磁帶上長時間進行目錄重復放映，則畫面質量可能會降低。

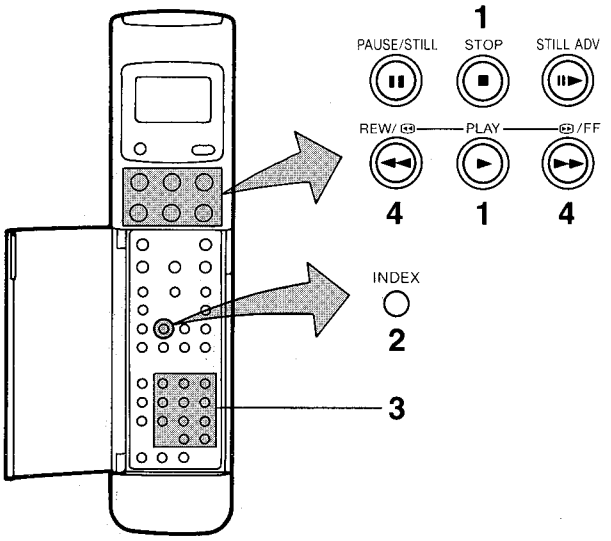
時間檢索

無論在哪個位置，只要準確輸入您想跳過的畫面放映所需要的時間，時間檢索功能便可以迅速找到想要的位置。



從磁帶開始算有
10分鐘

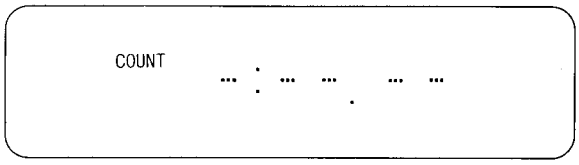
從磁帶開始算有
15分43秒鐘



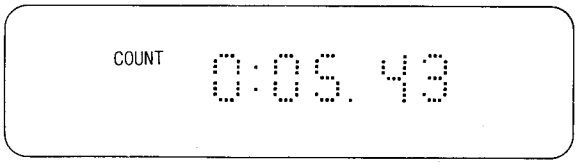
從停止狀態開始時間檢索

1 使錄放影機進入停止狀態。

2 按時間檢索鈕。
多功能顯示屏上的指示會改變爲如下。



3 輸入所要畫面的時間。
- 以時分秒順序按數碼鈕即可輸入時間。
- "—"指示作爲 "0" 計數。



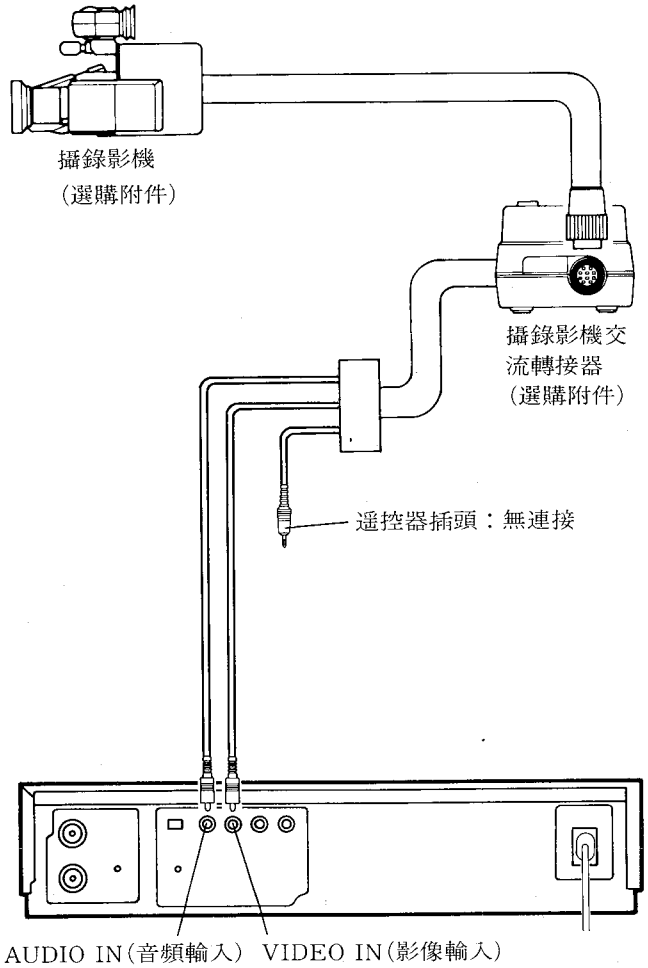
4 按快進 ▶▶/快進檢索 ⏩ 鈕或倒帶 ◀◀/倒帶檢索 ⏪ 鈕。
當倒帶或快進到指定時間的磁帶位置時，放映即開始。

從放映狀態開始時間檢索

其操作與停止狀態開始的時間檢索相同，但在操作步驟 4 中：快進檢索或倒帶檢索（放映）至指定時間的磁帶位置，然後開始放映。
在放映中啓動時間檢索時，可輸入最大時間爲59分59秒。

- 遇到磁帶上沒有內容的部分，磁帶計時器的數字不會改變。
- 磁帶插入後，磁帶計時器將自動被復位爲"0:00.00"。

攝影錄影



- 如果您讓錄放影機停留在暫停狀態下超過 5 分鐘，則錄放影機將自動停止以保護磁帶和影像磁頭。
- 即使攝錄影機具備有錄放影機遙控功能，本錄放影機也不能由攝錄影機來遙控。

準備：

- 如上圖所示，利用攝錄影機的交流轉接器連接攝錄影機和錄放影機。
- 接遙控器的輸入信號選擇器，選擇“A1”節目位置（或用錄放影機上的頻道上或下鈕進行選擇。）
- 插入消磁防止搐舌完整的磁帶。
  當磁帶進入錄放影機內時，按錄放影機通／斷開關將其打開。
- 將磁帶速度選擇器設至“SP”或“LP”。
- 確認未連接麥克風至錄放影機。

1 開啓攝錄影機交流轉接器，並在攝錄影機上作適當的調整。
請參考您的攝錄影機的使用説明書。

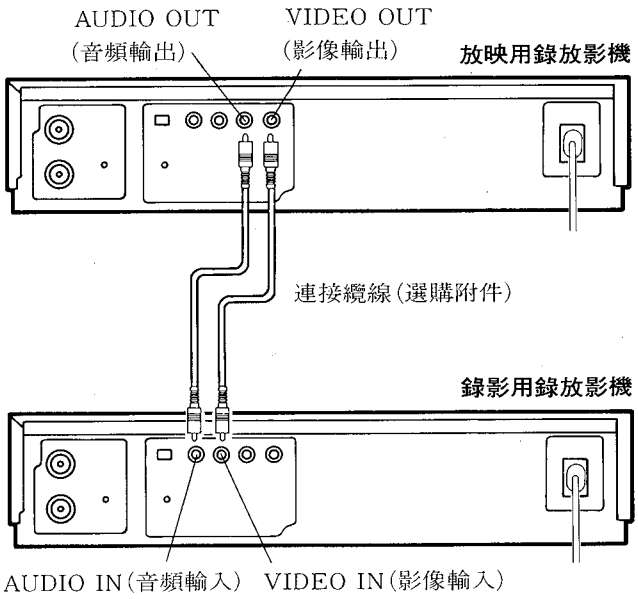
2 按錄放影機上的錄影鈕（●）開始錄影。

爲避免錄到不想要的內容：
按錄放影機上的暫停／靜止鈕（❚❚），錄影將暫時停止。
要重新開始錄影時，請再按一次暫停／靜止鈕（❚❚）。

3 按錄放影機上的停止鈕（■）停止錄影。

複製(拷貝)

將一盒磁帶的內容複製（拷貝）於另一盒磁帶上。



準備

- 依照連接圖所示，作必要的連接。
- 按兩錄放影機的通／斷開關以開啓兩錄放影機。
- 按遙控器的輸入信號選擇器，選擇“A1”節目位置（或用錄放影機上的頻道上或下鈕進行選擇。）
- 確認錄影及放映用錄放影機的影像雜濾波器／編輯選擇器（如果具備的話）均處於“EDIT ON”的位置。平常使用時，請將這些開關設至“OFF”。
  （影像雜波濾波器／編輯選擇器在前板上。）
- 選擇PAL或MESECAM系統。
- 確認未連接麥克風至錄放影機。

1 將有內容的錄影帶插入放映用錄放影機內，另將消磁防止擋舌完整的空白磁帶插入錄影用錄放影機內。

2 按錄影用錄放影機的錄影鈕（●）。

3 按放映用錄放影機的放映鈕（▶）。

4 按兩錄放影機的停止鈕（■）以停止複製。

- 中斷錄影時，爲使畫面順暢及無雜波，請使用暫停／靜止鈕（❚❚）。
- 從停止狀態開始錄影時，爲獲得順暢的畫面：
  1. 放映已錄製好的內容的上一部分以確認其結束位置，然後按下暫停／靜止鈕（❚❚）。
  2. 按錄影鈕（●）。
     （錄放影機仍處於暫停狀態。）
  3. 再按暫停／靜止鈕（❚❚）即可開始錄影。
- 複製磁帶的畫質自然不如原帶。

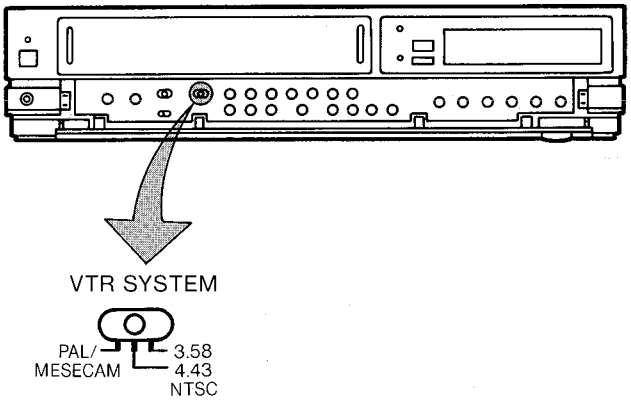
錄放影機系統選擇器

複製NTSC系統磁帶時，請將錄影和放映用錄放影機的錄放影機系統選擇器均設至“4.43”或“3.58”位置。

複製NTSC4.43系統時：將錄放影機系統選擇器設至“4.43”。

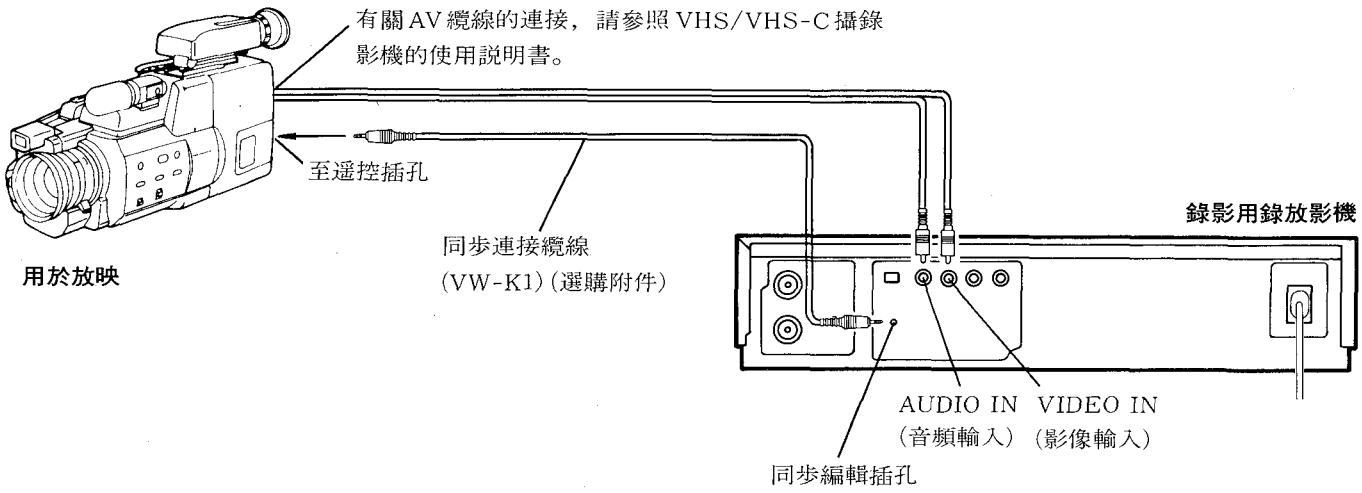
複製NTSC3.58系統時：將錄放影機系統選擇器設至“3.58”。

- 錄放影機系統選擇器被設至“4.43”或“3.58”時，PAL信號將不能被正確地錄製。
- 複製PAL系統磁帶時，請將錄影和放映用錄放影機的錄放影機系統選擇器均設至“PAL/MESECAM”位置。



中文

複製(拷貝)(續前)



連接至帶有同步編輯功能的攝錄影機

可使用本錄放影機的錄影開始和停止，將攝錄影機的放映開始和停止同步起來。

準備

- 依照連接圖所示，作必要的連接。
- 將攝錄影機及本錄放影機的編輯開關（影像雜波濾波器／編輯選擇器）設至“ON”(或“EDIT ON”)位置。
- 按遙控器的輸入信號選擇器，選擇“A1”節目位置（或用錄放影機上的頻道上或下鈕進行選擇。）
- 選擇PAL或MESECAM系統。
- 確認未連接麥克風至錄放影機。

1 使錄放影機進入錄影暫停狀態。

2 使攝錄影機進入靜止放映狀態。
- 在您想開始編輯的位置使攝錄影機進入靜止放映狀態。

3 按錄放影機的暫停／靜止鈕。
- 攝錄影機將切換至放映狀態，複製將自動開始。

避開不想要的場面

1 按錄放影機的暫停／靜止鈕。
錄放影機將切換至錄影暫停狀態，攝錄影機將切換至靜止放映狀態。

2 操作攝錄影機，使其跳越過不想要的場面，然後再次使其進入靜止放映狀態。

3 按錄放影機的暫停／靜止鈕。
- 複製將重新開始。

要停止複製時，請按錄放影機的停止鈕，然後使攝錄影機進入停止狀態。

錄放影機之間的同步編輯

如果從另一台配備有同步編輯插孔的錄放影機進行編輯時，可用本錄放影機啓動兩錄放影機的同步開始和停止。
其操作與左邊介紹的利用攝錄影機的同步編輯相同。

要求服務之前

要求服務之前，請先檢查下列各點。

不正常現象	原　因	修理方法
電源不通。	未插上電源纜線。	將電源線連接至電源插座。
	定時錄影功能被調至“On”位置。	將定時錄影功能調至“Off”位置。
電源雖通，却無法操作。	安全裝置作用中。	關掉錄放影機通／斷開關，拔下交流電源線，然後再重新將電源線接好，並打開錄放影機通／斷開關。
	錄放影機內凝聚濕氣。	等待濕氣指示燈“☝”消失。
錄放影機自動關閉。	安全裝置作用中。	按錄放影機通／斷開關，再次打開錄放影機。
無法收錄電視節目。	和室外天線的連接不正確。	將室外天線連接好。
	接收頻道未調諧正確。	將接收頻道調諧正確。
不能錄製電視節目的聲音。	有麥克風連接至錄放影機時。	請從錄放影機上將其拔掉。
OTR功能（單觸定時錄影）無法進行。	時鐘在“0:00”上閃動。	將時鐘設至現在時刻。
自動定時錄影無法進行。	錄影開始時間或結束時間的調整不正確。	將錄影開始時間和結束時間調正確。
	定時錄影功能被調至“Off”位置。	將定時錄影功能調至“On”位置。
	時鐘顯示的時間不正確。	將時鐘調至現在時刻。
	時鐘在“0:00”上閃動。	調整時鐘時間，並進行定時設定。
無法通過外部輸入端子進行錄影。	未選擇“A1”節目位置。	選擇“A1”節目位置。

要求服務之前(續前)

不正常現象	原　因	修理方法
畫面没有彩色。 畫面有大量“雪花”效應。	錄影時，接收頻道未調諧正確。	將接收頻道重新調諧正確。
	電視機未正確調諧至錄放影機影像放映頻道。	將電視機正確調諧至錄放影機影像放映頻道。
	影像磁頭不潔。	送交專業維修人員檢修。
	影像磁頭磨損。	送交專業維修人員檢修。
	磁帶老舊和／或有缺陷。	使用新磁帶。
遥控器失效。	遥控器未對準錄放影機的遥控信號接收窗。	將遥控器對準錄放影機的遥控信號接收窗。
	距離太遠。	須在距離錄放影機 7 公尺內使用遥控器。
	遥控器和錄放影機之間有障礙物。	移開障礙物。
	電池電力耗盡。	更換電池。
	電池極性（＋，－）放反。	正確地放入電池。
不能進行從遥控器至錄放影機的數據傳送。	錄放影機關閉。	打開錄放影機。
	錄放影機處於某一操作狀態。	使錄放影機進入停止狀態。
	節目號碼均被占據。	至多能同時設定 8 節目定時錄影。

規格

NV-J22AM

您的安全信息。

電源：	110-240伏（自動電壓）交流 50-60赫茲
電力消耗：	大約26瓦

錄影系統：	2旋轉磁頭，螺旋掃描系統		
影像磁頭：	4影像磁頭		
磁帶速度：	SP；23.39mm/秒		
	LP；11.695mm/秒		
磁帶規格：	VHS磁帶		
錄影／放映時間：	SP；240分鐘，用NV-E240(VHS)磁帶		
	LP；480分鐘，用NV-E240(VHS)磁帶		
快進／倒帶時間：	大約2.5分鐘，使用NV-E180磁帶		
影像			
電視系統：	CCIR；625線，50幀，PAL彩色信號		
調制系統：	亮度；FM方位錄影		
	彩色信號；轉化副載波相轉換錄影		
輸入電平：	影像輸入(PHONO)；	1.0Vp-p，	75歐
輸出電平：	影像輸出(PHONO)；	1.0Vp-p，	75歐
	RF調制；	D.K.K1；UHF頻道 C25(24-27)，	75歐，端接式
		B.G；UHF頻道 E38(32-40)，	75歐，端接式
音頻			
輸入電平：	音頻輸入(PHONO)；	大於 −10分貝，	大於50千歐
	麥克風；	−50分貝，	大於600歐
輸出電平：	音頻輸出(PHONO)；	−6分貝，	小於1千歐
音頻磁迹：	1磁迹（僅正常單聲）		
影像水平析象：	彩色；大於240線（SP）		
信號對雜波比：	影像；大於43分貝（SP）		
	音頻；大於43分貝（SP）		
音頻頻率響應：	80Hz～10kHz（SP）		
操作温度：	5℃－40℃		
操作濕度：	35%－80%		
重量：	5.0公斤		
尺寸：	380(寬)×82(高)×344.5(深)mm		
標準附件：	DIN-DIN同軸纜線×1		
	遥控器×1		
	"R6"型電池×2		
	交流電源線×1		
	分離變壓器轉接器×1		

重量和尺寸爲近似値。
規格可不預先通知而自行變更。

中文